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1920

Annual Report
of the
President
of the
Borough of Queens
1920

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ANNUAL REPORT

OF THE

PRESIDENT

OF THE

BOROUGH OF QUEENS

1920

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MAURICE E. CONNOLLY, PRESIDENT

PRESS OF
CLARENCE S. NATHAN, INC.,
NEW YORK.

Q31
1920.

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CITY OF NEW YORK
OFFICE OF THE
PRESIDENT OF THE BOROUGH OF QUEENS

Long Island City, May 1, 1921.

HON. JOHN F. HYLAN, Mayor,
The City of New York.

SIR:

In compliance with the provisions of the Charter of The City of New York I submit herewith a report showing the operations of the various departments under my supervision for the year ended December 31, 1920.

Yours very truly,

MAURICE E. CONNOLLY,
President of the Borough of Queens.

552411

OFFICIALS OF THE BOROUGH OF QUEENS, 1920

<i>President of the Borough</i>	MAURICE E. CONNOLLY
<i>Commissioner of Public Works</i>	FRANK X. SULLIVAN
<i>Secretary of the Borough</i>	JOSEPH FLANAGAN
<i>Assistant Commissioner of Public Works</i>	W. AUGUSTUS SHIPLEY
<i>Assistant to President</i>	CHANNING A. LEIDY
<i>Superintendent of Highways</i>	JOHN J. KINDRED
<i>Superintendent of Sewers</i>	JOHN R. HIGGINS
<i>Superintendent of Street Cleaning</i>	DANIEL EHNTOLT
<i>Superintendent of Public Buildings and Offices</i>	JOSEPH SULLIVAN
<i>Superintendent of Building Construction and Alteration</i>	JOHN W. MOORE
<i>Engineer in Charge of Construction</i>	JAMES RICE
<i>Engineer in Charge of Topographical Bureau</i>	CHARLES U. POWELL

THE CITY OF NEW YORK
OFFICE OF THE
PRESIDENT OF THE BOROUGH OF QUEENS

MAURICE E. CONNOLLY, *President*

The Charter of The City of New York provides that the President of the Borough shall submit to the Mayor, annually, a report showing the operations of the various departments under his supervision. A summarized report for the year ended December 31, 1920, is herewith transmitted.

The City of New York is divided into five boroughs for the purpose of administering the functions of municipal government that are local in character. The Borough of Queens consists of the territory known as Queens County and the electors thereof elect a President for a term of four years. By virtue of his office the President is a member of the local boards of every district of local improvement in his borough and is chairman thereof. The President is also a member of the Board of Estimate and Apportionment and a member of the Board of Aldermen. The President has control of regulating, grading, curbing, flagging and guttering of streets and laying of crosswalks, of constructing and repairing public roads, of paving, repaving, resurfacing and repairing of all streets, and of the relaying of all pavement; of the laying of surface railroad tracks, the filling of sunken lots, fencing of vacant lots, digging down lots, licensing vaults under sidewalks, removal of encumbrances, the issue of permits to use or open the streets. He has control of the construction and maintenance of all bridges and tunnels except such bridges as cross navigable streams; the construction and supervision of sewers, of the construction, repair, cleaning, and maintenance of public buildings (except school houses, almshouses, penitentiaries and fire and police station houses), of the care and cleaning of all offices occupied for public use; of the location, establishment, care, erection and maintenance of the public baths and public comfort stations; and of the placing of all street signs, of the cleaning of the streets, the removal of ashes, street sweepings and garbage; of the framing of regulations controlling the use of sidewalks and gutters.

The office of the President of the Borough is divided into eight bureaus, each of which performs certain designated functions. These bureaus are: (1) Administration, (2) Highways, (3) Engineering Construction, (4) Sewers, (5) Street Cleaning, (6) Public Buildings and Offices, (7) Topographical, (8) Supervision of Building Construction and Alteration.

LOCAL BOARDS

For the purposes of home rule and local improvements the Borough of Queens is divided into two districts, called Newtown (Wards 1 and 2) and Jamaica (Wards 3, 4 and 5). In each of these districts is a board of local improvements known as "the local board," entrusted with the powers prescribed by the Charter. The local boards have jurisdiction over those subjects or matters the costs and expenses whereof are a charge upon the people or property of the district for local administration within such district. The local board consists of the President of the Borough and each member of the Board of Aldermen who represents an Aldermanic district within such local improvement district.

LOCAL BOARDS—REPORT OF 1920

PETITIONS CONSIDERED								IMPROVEMENTS INITIATED				CLASS	Total Estimated Cost of Improvements Initiated
1st Quar- ter	2nd ter	3rd Quar- ter	4th Quar- ter	1st ter	2nd Quar- ter	3rd ter	4th Quar- ter						
19	21	23	4	12	16	18	3	Sewer construction.....				\$1,777,322	
2	2	2	1	1	2	2	2	Construction of basins in accordance with Sec. 435 of the Charter.....				6,160	
3	4	7	---	2	4	5	---	Regulating, grading, curbing, recurling, flagging, reflagging, constructing receiving basins, sewer manholes and appurtenances and crosswalks.....				174,600	
2	2	2	1	2	1	---	1	Regulating, grading and guttering.....				59,260	
1	4	1	1	---	4	---	1	Curbing, recurling, laying sidewalks and crosswalks, in accordance with Sec. 435 of the Greater New York Charter.....				15,290	
---	3	2	1	---	2	---	---	Regulating, grading and laying sidewalks.....				80,950	
---	9	2	3	---	6	---	3	Regulating, grading, curbing, laying sidewalks and crosswalks.....				73,070	
1	4	1	1	1	3	---	---	Paving.....				160,700	
4	6	4	6	3	3	4	5	Regulating, grading, curbing, laying sidewalks and paving.....				211,300	
9	19	10	6	3	4	4	3	Amending map.....				---	
9	46	3	4	4	7	1	4	Acquiring title.....				---	
9	2	---	---	5	1	---	---	Amendment of zones.....				---	
---	3	1	---	---	3	1	---	Water.....				---	
2	5	10	6	2	5	10	6	Gas and electricity.....				---	
61	130	68	34	36	61	47	27					\$2,558,652	

RESOLUTIONS RECONSIDERED

Amended.....	2
Rescinded.....	32
Filed.....	5
Laid over.....	54
Petitions denied.....	25
Petitions withdrawn.....	1

DIVISION OF AUDIT AND ACCOUNTS

APPROPRIATIONS 1919 AND PRIOR YEARS

Cash Balance as at Dec. 31, 1919.....	\$135,809.40
Journal Credits—Reconciliations, etc.....	1,807.06
Total Cash.....	\$137,616.46
Journal Debits, etc.....	9,239.71
Net Funds Available for 1920.....	\$128,376.75
<i>Disbursements:</i>	
Net Amount of Vouchers, Registered and Transmitted During 1920.....	\$122,897.23
Cash Balance as at Dec. 31, 1920.....	\$5,479.52
<i>Reserves:</i>	
For Open Market Orders.....	\$2,030.95
" Contracts.....	624.99
Total Reserves as at Dec. 31, 1920.....	2,655.94
Unencumbered Balance as of Dec. 31, 1920.....	\$2,823.58

APPROPRIATIONS 1920

Budget Allowance as at January 1, 1920.....	\$3,805,424.58
Journal Credits—Reconciliations, etc.....	194,158.09
Total Cash.....	\$3,999,582.67
Journal Debits—Accruals, etc.....	58,480.80
Net Funds Available for 1920.....	\$3,941,101.87
<i>Disbursements:</i>	
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1920.....	\$3,655,735.72
Cash Balance as at Dec. 31, 1920.....	\$285,366.15
<i>Reserves:</i>	
For Payrolls.....	\$39,821.28
" Open Market Orders.....	41,063.94
" Contracts.....	136,604.83
Total Reserves as at Dec. 31, 1920.....	217,490.05
Unencumbered Balance Dec. 31, 1920.....	\$67,876.10

SPECIAL REVENUE BONDS

Cash Balance as at Dec. 31, 1919.....	\$172,558.12
Miscellaneous Credits and Journal Adjustments During 1920.....	871,230.20
Net Funds Available for 1920.....	\$1,043,788.32
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1920.....	512,174.19
Cash Balance as at December 31, 1920.....	\$531,614.13

Reserves:

For Payrolls.....	\$188,954.03	
“ Open Market Orders.....	8.87	
“ Contracts.....	325,337.32	
		<hr/>
Total Reserves Dec. 31, 1920.....		514,300.22
		<hr/>
Unencumbered Balance Dec. 31, 1920.....		\$17,313.91

CORPORATE STOCK FUNDS

Cash Balance as at Dec. 31, 1919.....	\$2,617,511.32	
Miscellaneous Credits and Journal Adjustments During 1920.....	5,447,562.77	
		<hr/>
Net Funds Available for 1920.....	\$8,065,074.09	
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1920.....	3,428,865.61	
		<hr/>
Cash Balance as at Dec. 31, 1920.....	\$4,636,208.48	

Reserves:

For Miscellaneous Invoices.....	\$49,258.95	
“ Open Market Orders.....	927.40	
“ Contracts.....	4,101,875.29	
		<hr/>
Total Reserves as at Dec. 31, 1920.....		4,152,061.64
		<hr/>
Unencumbered Balance as at Dec. 31, 1920.....		\$484,146.84

SPECIAL AND TRUST FUNDS

Cash Balance as at Dec. 31, 1919.....	\$64,213.11	
Cash Receipts from Issuance of Permits, Deposited with City Chamberlain During 1920.....	43,441.70	
		<hr/>
Total Cash.....	\$107,654.81	
<i>Less:</i>		
Journal Adjustments—Reconciliations, etc.....	\$3,141.40	
		<hr/>
Net Cash Available for 1920.....		\$104,513.41

Disbursements:

Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1920.....	34,202.29	
		<hr/>
Cash Balance as at Dec. 31, 1920.....		\$70,311.12

Reserves:

For Refunds (Code S 7 Q).....	\$1,989.23	
“ Open Market Orders.....	9,246.53	
“ Surplus.....	16,498.34	
		<hr/>
Total Reserves as at Dec. 31, 1920.....		\$27,734.10
		<hr/>
Unencumbered Balance as at Dec. 31, 1920.....		\$42,577.02

PAYROLL DIVISION

This division is charged with the preparation of all payrolls of the department or office of the Borough President, covering over 2,200 employees. It records the time reports transmitted to it by the various bureaus. All charges are then figured, including deductions for pension or life insurance, and the schedule line expenditures recorded. The time is then transcribed on payroll voucher forms and the vouchers forwarded to the Department of Finance. The employees' payrolls are prepared semi-monthly for those on an annual basis and weekly for those on a per diem basis. Communications pertaining to personal service are recorded and filed. A record is kept of all absences and latenesses of per annum employees, which is charged against the time allowance or vacation period of each. Duplicate payroll vouchers are registered, scheduled and filed.

DIVISION OF PURCHASE AND STORAGE OF SUPPLIES

All supplies, equipment and materials are purchased through this division on requisitions submitted by directors of various bureaus after obtaining estimates on appropriate specifications from reliable concerns, open market orders are issued to lowest bidders. All payment vouchers are prepared in this division.

CONTRACT AND OPEN MARKET ORDERS ISSUED DURING 1920

Month	Orders Issued	Appro- priation Accounts	Special Revenue	Cor- porate Stock	Special and Trust Funds	Total
January.....	374	\$29,321.03	.....	\$675.00	\$893.90	\$30,889.93
February.....	388	30,019.16	.....	256.15	150.00	30,425.31
March.....	386	30,347.56	\$279.00	487.11	65.00	31,178.67
April.....	374	30,181.94	3,872.61	70.00	1,050.00	35,174.51
May.....	330	53,377.16	6,522.53	122.50	420.00	60,442.19
June.....	336	51,769.99	.....	1,233.25	1,583.00	54,586.24
July.....	261	35,047.95	.....	140.00	16.50	35,204.45
August.....	334	84,556.74	.....	262.50	467.00	85,286.24
September.....	241	27,686.99	.....	709.75	108.00	28,504.74
October.....	241	53,314.05	.....	338.00	3,969.40	57,621.45
November.....	249	26,281.57	.....	345.50	243.00	26,870.07
December.....	342	46,285.59	.....	585.15	240.00	47,110.74
Totals.....	3,856	\$498,189.73	\$10,674.14	\$5,224.91	\$9,205.80	\$523,294.58

DIVISION OF APPOINTMENTS

This division prepares the documents necessary to make effective all appointments, resignations and other changes in the personal service and keeps the official history of individual employees.

The following statement shows number of appointments, reassignments, reinstatements, transfers, increases in salary, changes of title, promotions suspensions, discontinuance through resignations, dismissals and retirement from service.

DIVISION OF APPOINTMENTS

Permanent appointments.....	310
Temporary appointments.....	23
Reassignments.....	230
Departmental transfers.....	18
Interdepartmental transfers.....	6
Increases in salary.....	3405
Changes of title.....	12
Promotions.....	58
Suspensions (lack of work).....	23
Suspensions (lack of funds).....	2
Discontinued (death).....	16
Discontinued (resigned).....	12
Discontinued (dismissed).....	15
Reinstated.....	3

DIVISION OF CONTRACTS

This division prepares advertisements soliciting bids on contract work. It tabulates bids received and security deposits submitted therewith and keeps records of the progress of the work under all contracts.

During 1920 there were contracts awarded for \$5,808,823.83 as follows:

Month	Awards	Appropriation Accounts	Special Revenue Bonds	Corporate Stock	Total
January.....	3	.....	.....	\$900,695.80	\$900,695.80
February.....	2	.....	.....	188,057.00	188,057.00
March.....	32	\$249,539.48	\$8,398.00	175,623.89	433,561.37
April.....	8	.....	.....	265,875.05	265,875.05
May.....	9	3,967.58	.....	167,490.35	171,457.93
June.....	17	46,878.00	.....	1,004,025.53	1,050,903.53
July.....	15	.....	.....	288,431.23	288,431.23
August.....	25	2,700.00	77,887.50	834,316.35	914,903.85
September.....	26	.....	126,308.20	619,399.31	745,707.51
October.....	5	.....	.....	79,091.16	79,091.16
November.....	14	.....	100,013.00	460,016.50	560,029.50
December.....	5	38,882.90	27,942.00	145,285.00	210,109.90
Totals.....	161	\$339,967.96	\$340,548.70	\$5,128,307.17	\$5,808,823.83

DIVISION OF MAILING AND FILING

During 1920 there were 22,115 pieces of mail received and distributed, which, after properly noted, were returned for filing. The outgoing mail handled consisted of 38,356 letters.

DIVISION OF PERMITS—REPORT FOR 1920

Per- mits	KIND	Spec. & Tr. Fund \$101	RECEIPTS					Code 727	Code A G 4	Code CFM 25	Total
			General Fund	Sinking Fund	Spec. Sec. Dep.	Code S 7 Q	Code 730				
4,012	Restoring and Repaving	\$25,083.41									\$25,083.41
	Inspection Fees	10,549.50									10,549.50
36	Restoring and Repaving Excess	1,304.69									1,304.69
2,006	Sewers and Drains		\$12,925.00								12,925.00
53	Vaults			\$1,176.03							1,176.03
25	Privileges		\$83.39								\$83.39
45	Private Sewers					\$3,556.70					3,556.70
2	Roof and Shed		10.00								10.00
78	Signs		168.00								168.00
159	Store Material				\$73.50.00						73.50.00
267	Cross Walk				2,670.00						2,670.00
31	Move Steam Shovel				300.00						300.00
49	Deposit on Plans, Highway & Sewer					156.20					156.20
13	Deposit on Dirt Trench					130.00					130.00
117	Sale of Maps, Topographical						\$37.25		\$64.75		102.00
3	Refund on Carfare, U. S. R. R.										
	Adm.							\$63.29			63.29
1	Refund Street Improvement Contract									\$356.00	356.00
5,609	Permits to Corporations and Contractors										
		\$36,937.60	\$13,956.39								
				\$1,176.03	\$10,606.20	\$3,556.70	\$37.25	\$63.29	\$64.75	\$356.00	\$66,754.21
DISBURSEMENTS											
926	Restoring and Repaving	\$12,946.79									\$12,946.79
4	Sewers and Drains		\$20.00								20.00
121	Store Material				\$6,010.00						6,010.00
277	Cross Walk				2,770.00						2,770.00
24	Move Steam Shovel				265.00						265.00
37	Deposit on Plans, Highway & Sewer					296.30					296.30
33	Deposit on Dirt Trench					522.00					522.00
		\$12,946.79	\$20.00			\$9,863.30					22,830.09

BUREAU OF HIGHWAYS

WORK PERFORMED

Macadamized Streets:

Macadam pavement repaired.....	sq. yds.	299,809
" " sanded.....	"	268,184
" " cleaned.....	"	523,053
" " tarred and oiled.....	"	184,235
" " sprinkled.....	"	41,624
" " finished.....	"	378,612
Dirt wings honed and cleaned.....	"	832,767
Gutters cleaned.....	lin. ft.	691,607

Paved Streets:

Granite pavement repaired.....	sq. yds.	48,490
Brick " ".....	"	7,863
Wood block " ".....	"	6,102
Asphalt block " ".....	"	9,972
Sheet Asphalt " ".....	"	2,774
Asphalt concrete " ".....	"	30,075
" " finished.....	"	16,944
Slag block pavement repaired.....	"	504
Pavement sanded.....	"	3,560
Sidewalks relaid.....	sq. ft.	2,604
Crosswalks relaid.....	lin. ft.	26
Curb reset.....	"	1,808
Headers set.....	"	2,362
Gutters repaved and built.....	"	14,472

Unimproved Streets:

Roadway graded.....	sq. yds.	812,229
" scraped and hoed.....	"	1,265,979
" Turnpiked.....	"	1,569,962
" Covered with sand and ashes.....	"	374,530
" Oiled.....	"	1,877,004
" Sprinkled.....	"	82,532
Dirt crosswalks graded.....	"	2,946
" sidewalks graded.....	"	3,510
Roadway ploughed.....	"	14,022
Gutters formed and cleaned.....	lin. ft.	897,226

Trees and Weeds:

Weeds cut down and removed.....	sq. yds.	58,055
Dead and dangerous trees cut and removed.....		3

Culverts:

Pipe laid.....	lin. ft.	874
Culverts cleaned.....	"	2,636
Wood culverts repaired and built.....	"	1,050

Snow and Ice:

Roadway cleaned.....	sq. yds.	277,522
Gutters cleaned.....	lin. ft.	188,930
Crosswalks cleaned.....	"	18,690

Catch Basins:

Catch basins cleaned.....		15
" " repaired.....		5
New catch basins built.....		3

BUREAU OF ENGINEERING CONSTRUCTION

DIVISION OF HIGHWAYS

The Highway Division of the Bureau of Engineering Construction supervises the work done under contract for Highway Improvements and also the restoration of pavements over openings made by contractors for construction of sewers.

A very important part of the work of this Division consists of inspection of condition and repairs to pavements, concrete curb and cement sidewalk, restoration of pavements disturbed by plumbers, public service corporations and sewer and water contractors under, maintenance by contractors. This work is done under an Assistant Engineer and seven men.

The removal of encroachments on streets is also supervised by this Division.

CONTRACTS PREPARED FOR PUBLIC IMPROVEMENTS DURING 1920

Improve- ment	Location	Limits	Ward	Amount of Bid
RGCF	B. 22d St.....	E. S. New Haven to Brookhaven Aves.....	5	\$1,278.10
RGCF	B. 22d St.....	Cornaga Ave. to Far Rockaway Blvd.		
RGF	77th St.....	Jamaica to 88th Aves.....	4	2,250.00
RGF	" " W. S.....	88th Ave. to Rockaway Blvd.....		
RGCF	91st Ave.....	Borough Line to 84th St.....	4	17,288.00
RGCF	84th St.....	90th Road to 91st Ave.....		
RGCF	Kingsland Ave.....	51st St. to Peartree Ave.....	2	14,855.50
RGF	93rd Ave.....	N. S. Elderts Lane to 75th St.....	4	440.00
RGCF	88th St.....	80th to 85th Sts.....	4	3,562.00
RF	46th St.....	Jackson to Astoria Aves.....	2	3,321.00
RGCF	Gunther St.....	Alburtis Ave. to 51st St.....	2	6,319.05
RGF	Beddard St.....	S. S. Boerum Ave. to 145th St. E....	3	350.00
RGF	Maspeth Ave.....	N. S. Maurice to Willow Aves.....	2	11,665.00
RGF	" " ".....	S. S. Betts to Van Cott Aves.....		
RGF	" " ".....	Broad St. to Clermont Ave.....	1	13,991.50
RGCF	Bodine St.....	Vernon Ave. to Sherman St.....		
RGCF	Hamilton St.....	Bodine St. to Harris Ave.....	5	236.00
RGF	Boulevard.....	S. S. B. 35th St. to Norton's Inlet....		
RGCF	Central Ave.....	Myrtle Ave. to 117' East of Cypress Ave.....	2	6,982.00
RGCF	16th Ave.....	Grand to Vandeventer Aves.....	1	3,850.00
RGCF	N. Jane St.....	Vernon Ave. to 368.55' west.....	1	44,715.00

CONTRACTS PREPARED FOR PUBLIC IMPROVEMENTS DURING 1920—Continued

Improve- ment	Location	Limits	Ward	Amount of Bid
RG	Howland St.....	Wolcott to Ditmars Aves.....	}	\$13,135.00
RG	Hallett St.....	Wolcott to Ditmars Aves.....		
RG	Opdyke St.....	Alburtis to Tieman Aves.....	2	4,075.00
RG	Park Lane.....	Myrtle Ave. to Union Turnpike.....	2 & 4	88,637.50
RGCF	2nd St.....	Woodside to Stryker Aves.....	2	6,576.00
RGC	Grandview Ave.....	Stanhope St. to Metropolitan Ave.....	2	10,655.00
RGC	Arcadia St.....	14th to 16th Aves.....	1	1,396.50
RGCF	Havemeyer St.....	51st St. to Peartree Ave.....	} 2	27,466.27
RGCF	Peartree Ave.....	Kingsland to Roosevelt Aves.....		
RGF	42d St., E. S.	Jackson Ave. to 200' north of Hayes Ave.....	2	1,950.00
RG	Harper Ave.....	Jackson Ave., 450' north.....	2	9,500.00
RG	Tompkins Place.....	Myrtle to Cooper Aves.....	2	875.00
RGF	223rd St., E. S.	Hempstead to 105th Aves.....	4	1,985.21
RGF	Maspeth Ave., S. S.	Clermont Ave. to Grand At.....	} 2	1,890.00
RGF	Maspeth Ave.....	Van Cott Ave. to Broad St.....		
RG	Beach Channel Drive..	B. 130th St., 100' west of Beach 141st St.....	5	14,145.00
RGF	Farrington St.....	State St. to Elbow Place.....	3	1,833.00
RGCF	Ely Ave.....	Broadway to Ridge St.....	1	1,527.50
Borings	Jamaica Bay Blvd.....	1,396' south of Sheridan Ave to S. Bulkhead Line	5	8,800.00
31 Bids amounting to.....				\$323,750.13

* R., regulating; G., grading; C., curbing; F., flagging.

CONTRACTS PREPARED FOR REPAVING DURING 1920

Repave	Street	Limits	Ward	Amount of Bid
Sheet Asph.	11th Ave.....	Broadway to Newtown Road.....	1	\$34,429.55
" "	Academy St.....	Wilbur to Freeman Aves.....	1	37,458.00
" "	Hunter Ave.....	Harris Ave. to Bridge Plaza S.....	1	22,792.50
Impr. Gr.	Nott Ave.....	Vernon Ave. to Hancock St.....	} 1	37,038.00
Impr. Gr., N.S.	Nott Ave.....	Hancock St. to Van Alst Ave.....		
Sheet Asph.	13th St.....	Broadway to Newtown Road.....		22,049.40
Impr. Gr.	3rd Ave.....	1st to 13th Sts.....	3	57,874.00
" "	3rd Ave.....	1st St. to R. R. area.....	3	26,880.00
Bit. Macadam	5th Ave.....	21st St. to Whitestone Line.....	3	31,330.00
Sheet Asph.	7th Ave.....	13th to 16th Sts., College Point..		24,596.50
Bit. Macadam	7th Ave. & Linden St.....	18th St. to Flushing Line.....	3	33,765.00
Sheet Asph.	Grand Ave.....	Hopkins Ave. to Main St.....	1	23,581.00
" "	Grandview Ave.....	Stanhope to Linden Sts.....	2	41,855.00
Asph. Conc.	Broadway.....	30th to 10th Sts.....	} 3	155,910.00
" "	Broadway.....	Main St. to City Line.....		

CONTRACTS PREPARED FOR REPAVING DURING 1920—Continued

Repave	Street	Limits	Ward	Amount of Bid
Asph. Conc. & Imp. Gr.	Broadway.....	Main St. to City Line (R. R. area)		\$12,825.00
Bl. Asph.	Metropolitan Ave.....	Flushing Ave. to Helen St.....	2	55,237.00
Bl. Asph & Imp. Gr.	Metropolitan Ave.....	Flushing Ave. to Helen St. (R. R. area).....	2	44,423.20
Sheet Asph.	Bridge Plaza N. & S.	Crescent St. to 100' East of Radde St.....	1	32,480.00
Impr. Gr.	Bridge Plaza.....	100' East of Radde St. to Jack- son Ave.....		84,535.00
" "	Bridge Plaza.....	Crescent St., intersecting R. R. area.....		575.00
" "	CollegePt.Causeway	9th Ave. to 850' South.....		14,000.00
" "	CollegePt.Causeway	9th Ave. to 850' South (R. R. area)		15,680.00
Sheet Asph.	8th Ave.....	Graham to Jamaica Ave.....	1	48,385.00
" "	1st Ave.....	Broadway to Grand Ave.....	1	54,825.00
" "	Prospect St.....	Bridge Plaza N. to Payntar Ave..	1	26,155.00
Asph. Conc.	Cooper Ave.....	Myrtle Ave. to L. I. R. R. (Mon- tauk Div.).....	2	41,640.00
				\$980,319.15
Repair sheet asphalt in the 1st and 2nd Wards.....				16,385.00

CONTRACTS PREPARED FOR ORIGINAL PAVEMENT DURING 1920

Pave	Street	Limits	Ward	Amount of Bid
Sheet Asph.	Pierce Ave.....	5th to 7th Aves.....	1	\$26,984.00
" "	6th Ave.....	Graham to Pierce Aves.....		
" "	Sandol St.....	Millwood to Cooper Aves.....	2	5,822.50
" "	Epsilon Place.....	Myrtle to Cooper Aves.....	2	14,964.00
Bl. Asph.	Anable St.....	Jackson Ave. to 270' South.....	1	7,470.00
Sheet Asph.	Fairview Ave.....	Gates Ave. to Woodbine St.....	2	8,875.00
" "	25th St.....	Baxter to Polk Aves.....	2	37,499.00
" "	" "	Hayes to Jackson Aves.....		
Bit. Macadam	Brevoort St.....	Metropolitan Ave. to Cuthbert Place.....	4	6,699.45
Gr. Bl.	Nott Ave.....	Vernon Ave. west to Bulkhead Line.....	1	18,785.00
Bit. Macadam	104th Ave.....	Farmers Blvd. to Hollis Ave.....	4	6,490.00
" "	Ash Ave.....	Parsons Ave. to Bowne St.....	3	7,898.00
Sheet Asph.	97th St.....	Jamaica to Atlantic Aves.....	4	53,675.00
" "	Stockholm St.....	Onderdonk to Seneca Aves.....	2	8,411.50
" "	94th St.....	Jamaica to 89th Aves.....	4	29,571.00
13 Bids Amounting to.....				\$233,144.45

CONTRACTS PREPARED FOR REPAVING COUNTY ROADS DURING 1920

Repave	Street	Limits	Ward	Amount of Bid
Asph. Conc.	Laurel Hill Blvd.....	Betts to Borden Aves.....	2	\$49,748.00
" "	Corona Ave.....	Way Ave. to 51st St.....	2	22,925.00
" "	Corona Ave.....	Woodhull to Colonial Aves.....	2	25,925.00
" "	Corona Ave.....	Woodhull to Colonial Aves. (R. R. area).....		
" "	Atlantic Ave.....	Norton's Creek to L. I. R. R.....	5	17,450.00
Asph. Sheet	Jamaica Ave.....	Van Wyck Ave. to Grand St.....	4	104,005.00
" " &				
Imp. Gr.	Jamaica Ave.....	Van Wyck Ave. to Grand St. (R. R. area).....	4	77,887.50
Asph. Sheet	Shell Road.....	20th St. to Jackson Ave.....	2	124,997.00
Asph. Sheet &				
Imp. Gr.	Shell Road ..	20th St. to Jackson Ave. (R. R. area).....	2	22,478.00
Asph. Sheet	Strong's Causeway....	Colonial Ave. to N. Hempstead Turnpike.....	2	53,600.00
Asph. Sheet &				
Imp. Gr.....	Strong's Causeway....	Colonial Ave. to N. Hempstead Turnpike (R. R. area).....	2	40,700.00
Asph. Sheet	Rockaway Blvd.....	Eastern to 5th Aves.....	5	35,380.00
Asph. Sheet &				
Imp. Gr.....	Rockaway Blvd.....	Eastern to 5th Aves. (R. R. area). ..	5	36,835.00
Asph. Conc.	Rockaway Blvd	Cronin's Crossing to Park Ave.....	5	64,250.00
" "	Rockaway Blvd.....	Norton's Creek to Cronin's Crossing.....	5	90,075.00
9 Bids Amounting to.....				\$766,255.50

RECAPITULATION			Total Amount
Bids			
31	For regulating, grading, etc.....		\$323,750.13
13	" paving.....		233,144.45
20	" Repaving.....		980,319.15
9	" " County roads.....		766,255.50
1	" repairing sheet asphalt pavements.....		16,385.00
			\$2,319,854.23

REJECTED BIDS				
Repave	Street	Limits	Ward	Amount
Impr. Gr.	Steinway Ave.....	Flushing to Winthrop Ave.....	1	\$114,805.00
	Steinway Ave.....	Flushing to Winthrop Aves. (R. R. area).....	1	83,952.40
Sheet Asph.	Jackson Ave.....	Junction Ave. to 51st St.....	2	124,660.00
Sheet Asph. &				
Imp. Gr.	Jackson Ave.....	Junction Ave. to 51st St. (R. R. area).....	2	72,577.50
Impr. Gr.	Lawrence St.....	Broadway to Myrtle Ave.....	3	37,026.30
" "	Lawrence St.....	Broadway to Myrtle Ave. (R. R. area).....	3	31,619.70
Total.....				\$464,640.90

ASSESSMENT CONTRACTS FOR REGULATING, GRADING, CURBING, FLAGGING, ETC.,
COMPLETED DURING 1920

RGCF	Street	Limits	Ward	Amount
RGCF	Queens Blvd.....	Diagonal St. to Gosman Ave.....	1	\$37,077.59
RGCF	Gragaw St.....	Queens Blvd. to 304' North.....		
RGCF	Queens Blvd., S. S.....	Harold to Gosman Aves.....	1	10,453.31
RG	Buckley St.....	Hunterspoint to Thomson Aves.....	1	5,560.32
RGCF	Roosevelt Ave.....	200' East of Alburtis to Woodside Aves.....	2	127,480.29
RGCF	St. Felix Ave.....	Walter St. to Charlotte Place.....	2	4,214.20
RG	16th Ave.....	Patterson Ave. to 285' South of Grand Ave.....	1	19,227.78
RGC	Chaffee St., E. S.....	Hughes St. to Chaffee Place.....	2	196.87
RGF	149th St., E. S.....	20' South of Sanford to Beach Aves.	3	1,167.00
RGCF	Lowery St.....	Queens Blvd. to Skillman Ave.....	1	8,715.95
RGCF	Broad St.....	Clinton Ave. to Grand St.....	2	11,030.14
RGF	Cherry Ave., S. S.....	Parsons Blvd. to 147th St.....	3	968.73
RGF	Jamaica Ave., N. S.....	Lewis St. to Queens Blvd.....	4	118.18
RGF	98th Ave.....	218th St. to Springfield Blvd.....	4	1,016.97
RG	4th St.....	Queens Blvd. to Woodside Ave.....	2	12,575.80
RGCF	50th St.....	Jackson to Burnside Aves.....	2	13,873.81
RGF	182d Place, E. S.....	Jamaica to 91st Aves.....	4	1,413.03
RGCF	} Gunther St.....	51st St. to Peartree Ave.....	2	22,116.39
RGCF		51st St. to Depeyster Ave.....		
RGCF	} Roosevelt Ave., S. S.....	51st St. to Tiemann Ave.....	5	1,219.80
RGCF		New Haven to Brookhaven Ave.....		
RGCF	} Beach 22d St., E. S. ...	Cornaga Ave. to Far Rockaway Blvd.	4	2,221.92
RGF		Jamaica to 88th Aves.....		
RGF	77th St.....	88th Ave. to Rockaway Blvd.....	4	2,221.92
RGCF	91st Ave.....	Borough Line to 84th St.....	4	16,231.26
RGCF	84th St.....	90th Road to 91st Ave.....	2	14,304.24
RGCF	Kingsland Ave.....	51st St. to Peartree Ave.....	4	440.00
RGF	93d Ave., N. S.....	Elderts Lane to 75th St.....	4	2,837.97
RGCF	88th Ave.....	80th to 85th Sts.....	2	6,206.20
RGCF	Gunther St.....	Alburtis Ave. to 51st St.....	3	325.50
RGF	Beddard St.....	Boerum Ave. to 145th St., S.....	1	10,995.90
RGCF	Bodine St.....	Vernon Ave. to Sherman St.....	5	245.74
RGCF	Hamilton St.....	Bodine St. to Harris Ave.....	1	3,051.33
RGF	Boulevard, S. S.....	B. 35th St. to Norton's Inlet.....	1	13,000.70
RGCF	16th Ave.....	Grand to Vandeventer Aves.....	2	6,575.22
RG	Howland St.....	Wolcott to Ditmars Aves.....	2	1,935.40
RG	Hallett St.....	Wolcott to Ditmars Aves.....	2	1,547.00
RGCF	2nd St.....	Woodside to Stryker Aves.....	2	
RGF	42nd St.....	Jackson Ave. to 200' North of Hayes Ave.	2	
RG	Tompkins Place.....	Mrytle to Cooper Aves.....	2	
32 Contracts Completed, Amounting to.....				\$358,344.64

CONTRACTS FOR PAVING COMPLETED DURING 1920

Pave	Location	Limits	Ward	Amount
Sheet Asph.	Lotus Ave.....	Cypress Hills Road to Cooper Ave.	2	\$14,418.79
" "	Trowbridge St.....	Willow St. to Van Alst Ave.....	1	6,984.38
" "	4th Ave.....	Broadway to Jamaica Ave.....	1	22,149.95
" "	Roland St.....	Potter to Wolsey Aves.....	1	13,834.24
" "	Centre St.....	Cypress to Seneca Aves.....	2	7,067.45
" "	Decatur St.....	Wyckoff to Cypress Aves.....	2	15,139.21
" "	Ely Ave.....	Jamaica to Grand Aves.....	1	19,890.84
" "	Olmstead Place.....	Cooper Ave. to 175' South of Cen- tral Ave.....	2	26,226.01
" "	Vandeventer Ave.....	5th to 14th Aves.....	1	50,764.64
" "	Pierce Ave.....	5th to 7th Aves.....	1	26,342.49
" "	6th Ave.....	Graham to Pierce Aves.....		
" "	Sandol St.....	Millwood to Cooper Aves.....	2	5,765.92
" "	Epsilon Place.....	Myrtle to Cooper Aves.....	2	13,929.83
Bl. Asph.	Anable St.....	Jackson Ave. to 270' South.....	1	7,672.46
Sheet Asph.	Fairview Ave.....	Gates Ave. to Woodbine St.....	2	8,637.86
" "	25th St.....	Baxter to Polk Aves.....	2	38,811.61
" "	25th St.....	Hayes to Jackson Aves.....		
Bit. Macadam	Brevoort St.....	Metropolitan Ave. to Cuthbert Place.....	4	6,365.64
Gr. Bl.	Nott Ave.....	Vernon Ave. to Bulkhead.....	1	19,780.34
Bit. Macadam	104th Ave.....	Farmers Blvd. to Hollis Ave.....	4	6,783.13
" "	Ash Ave.....	Parsons Ave. to Bowne St.....	3	7,863.90
Sheet Asph.	Stockholm St.....	Onderdonk to Seneca Aves.....	2	8,106.80
" "	94th Ave.....	Jamaica to 89th Aves.....	4	27,967.47
Total.....				\$354,502.96

PRIVATE CONTRACTS COMPLETED

			Width	Length	Sq. yds.
Sheet Asph.	27th St.....	Roosevelt to Polk Aves.....	30	700	2,154

REPAVING CONTRACTS COMPLETED DURING 1920

Repave	Street	Limits	Ward	Amount
Asph. Conc.	Hillside Ave.....	Grand St. to Rocky Hill Road.....	4	\$172,102.34
Sheet Asph.	Jackson Ave.....	Bridge Plaza South to 2nd Ave.....	1	37,454.27
" "	Jackson Ave.....	Bridge Plaza South to 2nd Ave. (R. R. area).....		
" "	11th Ave.....	Broadway to Newtown Road.....	1	35,796.70
" "	Academy St.....	Wilbur to Freeman Aves.....	1	36,381.76
" "	Hunter Ave.....	Harris Ave. to Bridge Plaza South.....	1	21,884.37
Imp. Gr.	Nott Ave.....	Vernon Ave. to Hancock St.....	1	42,236.86
" "	Nott Ave., N. S.....	Hancock St. to Van Alst Ave.....		
Sheet Asph.	13th Ave.....	Broadway to Newtown Road.....	1	22,369.37
Imp. Gr.	3d Ave.....	1st to 13th Sts. (C. P.).....	3	23,281.94
" "	3d Ave.....	1st to 13th Sts. (R. R. area).....		
Bit. Macadam	5th Ave.....	21st St. to Whitestone Line (C. P.)	3	30,941.80
Sheet Asph.	Grand Ave.....	Hopkins Ave. to Main St.....	1	23,162.11
" "	Grandview Ave.....	Stanhope to Linden Sts.....	2	40,506.48

11 Contracts Completed, Amounting to..... \$547,974.12

LIST OF CONTRACTS FOR REPAVING COUNTY ROADS, COMPLETED DURING 1922

Repave	Street	Limits	Ward	Amount
Asph. Conc.	Broadway.....	Murray Lane to 30th St.....	3	\$33,429.79
" "	Cooper Ave.....	L. I. R. R., 150' East of Dry Harbor Road.....	2	10,992.11
" "	Laurel Hill Blvd.....	Borden to Betts Aves.....	2	48,376.19
" "	Atlantic Ave.....	Norton's Creek to L. I. R. R.....	5	16,556.06
4 Contracts Completed, Amounting to.....				\$109,354.15

CONTRACTS FOR REPAVING IN THE RAILROAD AREA, COMPLETED DURING 1920

Repave	Street	Limits	Ward	Amount
Imp. Gr.	13th St.....	2d to 9th Aves.....	3	\$28,530.16
" "	Main St.....	Broadway to Jamaica Ave.....	3	19,935.68
" "	Jackson Ave.....	2d Ave. to Old Newtown Road.....	1	56,176.19
3 Contracts Completed, Amounting to.....				\$104,642.03

ASSESSMENT MAPS COMPLETED AND FORWARDED TO BOARD OF ASSESSORS
DURING 1920

L. P.	Assess. Map	Street	Limits	Amount
7/1248	678	Lotus Ave.....	Cypress Hills Road to Cooper Ave.GCFP	\$14,418.79
1252	694	Trowbridge St.....	Willow St. to Van Alst Ave.....CFP	6,984.38
1256	700	Buckley St.....	Hunterspoint to Thomson Aves...G	5,560.32
1257	696	4th Ave.....	Broadway to Jamaica Ave.....GCFP	22,149.95
1265	698	Roland St.....	Potter to Woolsey Aves.....CP	13,834.24
1267	685	St. Felix Ave.....	Walter St. to Charlotte Place.....GCF	4,214.20
1268	695	16th Ave.....	Patterson Ave. to 285' South of Grand Ave.....G	19,227.78
1271	679	Chaffee St.....	Hughes St. to Chaffee Place.....GC	196.87
1272	688	149th St.....	20' South of Sanford to Beach Aves.....GF	1,167.00
1275	692	Broad St.....	Clinton Ave. to Grand St.....GCF	11,030.14
1284	697	Ely Ave.....	Jamaica to Grand Aves.....CP	19,890.84
1288	689	Jamaica Ave., N. S.....	Lewis St. to Queens Blvd.....F	118.18
1289	681	98th Ave.....	218th St. to Springfield Blvd.....GF	1,016.97
1295	693	182d Place.....	E. S. Jamaica to 91st Aves.....F	1,413.03
1298	690	Sandol St.....	Millwood to Cooper Aves.....CP	5,765.92
1360	691	77th St.....	Jamaica to 88th Aves.....F	2,221.92
1304	702	93d Ave.....	N. S. Elderts Lane to 75th St.....F	440.00
1305	699	Anable St.....	Jackson Ave. to 270' South.....CP	7,672.46
1309	701	Fairview Ave.....	Gates Ave. to Woodbine St.....P	8,637.86
19 Assessment Maps, Amounting to.....				\$145,960.85

RECAPITULATION OF CONTRACTS COMPLETED DURING 1920

Contracts	Amount
32 Regulating, grading, etc., total cost.....	\$358,344.64
21 Original pavement, total cost.....	354,502.96
11 Repaving streets, total cost.....	547,974.12
4 Repaving County roads, total cost.....	109,354.15
3 Repaving railroad area, total cost.....	104,642.03
71 Contracts completed at a total cost of.....	\$1,474,817.90
19 Assessment Maps completed and forwarded to Board of Assessors, amounting to.....	145,960.85
1 Private contract completed during 1920.	

WORK COMPLETED DURING 1920

89,468.40 cu. yds.	Earth Excavation.
1,054.21 "	Rock "
45,351.40 "	Embankment furnished and placed.
17,293.95 lin. ft.	New Bluestone Curb Set.
6,796.57 "	Old " " Reset.
43,606.21 "	New Concrete Curb Set.
3,382.10 "	Old " " Reset.
20,549.19 sq. ft.	New Bluestone Flag Laid.
540.80 "	Old " " Relaid.
239,365.11 "	Cement Walk Laid.
12,794.35 "	New Crosswalk Laid.
145.00 "	Old " Relaid.
20,243.79 cu. yds.	Concrete Foundation Laid.
78,239.36 sq. yds.	Asphaltic Concrete Pavement Laid.
711.00 "	Wood Block Pavement Laid.
5,344.34 "	Asphalt Block Pavement Laid.
22,949.30 "	Improved Granite Block Pavement Laid.
86,771.54 "	Sheet Asphalt Pavement Laid.
1,195.67 "	Vitrified Block Pavement Laid.
8,161.36 "	Old Granite Block Pavement Laid.
24,182.14 "	Bituminous Macadam Pavement Laid ...
4,731.90 cu. yds.	Broken Stone in Place.
729.70 lin. ft.	Bluestone Headers.
1,600.00 sq. yds.	Old Paving Blocks Removed.
9,372.26 "	Stone Gutters Furnished and Laid.
374.83 "	" " Relaid.
379.80 lin. ft.	Vitrified Pipe in Place.
309.50 "	Cast Iron Pipe in Place.
10	New Catch Basins Built.
11	Catch Basins Rebuilt.
15	" " Adjusted.
1	New Sewer Manhole Built.
2	Sewer Manholes Rebuilt.
85	" " Adjusted.
9	Seepage Basins Built.
511	Trees Removed.
313	" Furnished and Planted.
1	Sign Post Reset.
63 lin. ft.	Guard Rail Built.

REPAIRS DURING 1920 UNDER SUPERVISION OF ENGINEERING AND CONSTRUCTION—HIGHWAYS

PAVEMENTS OUT OF MAINTENANCE

Sheet Asphalt Repaired Outside R. R. Area.....	4,363 sq. yds.	
“ “ “ Inside “ “	1,953 “	
		6,316 sq. yds.
Sheet Asphalt, Plumbers' and Corporation Openings, Re- stored.....	302 sq. yds.	
Macadam Restored over Water and Sewer Trenches.....	6,728 “	
Granite Block Restored over Water and Sewer Trenches...	163 “	
Imp. Granite Block Restored over Water and Sewer Trenches.....	355 “	
Cobble Pavement Restored over Water and Sewer Trenches	2,008 “	
		9,556 “
		15,872 sq. yds.

PAVEMENTS UNDER MAINTENANCE

Asphalt Concrete Repaired.....	458 sq. yds.	
“ Block “	56 “	
Wood Block “	63 “	
Tarvia “	133 “	
Sheet Asphalt “	254 “	
		964 sq. yds.

PLUMBERS AND CORPORATION OPENINGS RESTORED

Asphalt Block.....	65 sq. yds.	
Sheet Asphalt.....	1,961 “	
Asphalt Concrete.....	197 “	
Granite Block.....	268 “	
Wood Block.....	14 “	
		2,505 sq. yds.
		19,341 sq. yds.

INSPECTED FOR FINAL OR INTERMEDIATE PAYMENTS, PAVEMENTS UNDER MAINTENANCE

Granite.....	19,016 sq. yds.	
Sheet Asphalt.....	273,450 “	Concrete Curb Inspected.... 26,732 lin. ft.
Asphalt Block.....	47,119 “	
Asphalt Concrete.....	134,445 “	Concrete Walk Inspected...119,396 sq. ft.
Wood Block.....	7,933 “	
Second Hand Granite.....	15,120 “	Inspected Sewer Trenches...106,913 lin. ft.
Macadam.....	5,355 “	
	402,438 sq. yds.	

PAVEMENTS LAID DURING 1920

AMOUNT IN USE JANUARY 1, 1921

KIND OF PAVEMENT	NEW PAVEMENTS LAID DURING 1920			REPAVED DURING 1920			TOTAL AMOUNT IN USE JANUARY 1, 1921		
	Miles	Sq. Yds.		Miles	Sq. Yds.		Miles	Sq. Yds.	
Asphaltic Concrete.....	.....	.....		8.81	104,924		120.85	1,326,514	
Asphalt, Sheet.....	2.65	48,218		1.72	35,541		46.02	807,477	
Asphalt, Block.....	.24	4,963		.....	.....		22.30	446,683	
Wood Block.....	.....	.....		.....	.....		8.97	169,813	
Vitrified Block.....	.....	.....		.....	.....		8.91	156,061	
Iron Slag.....	.....	.....		.....	.....		.22	2,200	
Improved Granite Block.....	.....	.....		2.77	30,669		18.43	296,232	
Granite Block.....	.18	2,019		.....	.....		20.90	356,908	
Belgian Block.....	.....	.....		.....	.....		2.92	54,656	
Bituminous Macadam.....	.40	5,937		1.85	21,779		62.07	713,906	
Macadam.....	.....	.....		.....	.....		170.13	2,085,146	
Gravel.....	.....	.....		.....	.....		1.12	11,827	
Concrete.....	.....	.....		.....	.....		.47	8,915	
	3.47	61,137		15.15	192,913		483.31	6,436,338	

During 1920 there have been constructed:

1,233.6	lin. ft.	40' 0"	Open Drain, inc. Excavation, etc.	\$44,049.00
670	"	40' 0"	" " exc. of Lumber and Pile.	15,503.80
300	"	8' 3" x 8' 6"	Reinforced Concrete Sewer	15,900.00
40	"	8' 3" x 8' 6"	Dbl. Bbl. Reinforced Concrete Sewer	3,800.00
1,126	"	8' 0"	Dbl. Bbl. Circ. Reinforced Concrete Sewer	56,300.00
900	"	8' 0"	" " " " laying.	18,900.00
1,000	"	8' 0"	" " " " Precast Pipe Sewer, Excavation, Laying, etc.	102,500.00
5.38	"	8' 0"	Rein. Conc. Pipe Sewer (Precast Type B)	581.04
493	"	8' 0"	" " Precast Pipe Laid	33,031.04
9.19	"	7' 6"	" " Pipe Sewer (Precast Type B)	900.62
15	"	7' 3"	Tunnel Sewer, exc. Laying, etc.	1,245.00
1,071	"	7' 3"	Reinforced Concrete Sewer	37,485.00
270	"	7' 0" x 8' 3"	Reinforced Concrete Sewer	33,750.00
6.99	"	7' 0"	Rein. Conc. Pipe Sewer (Precast Type B)	601.14
570	"	7' 0"	" " " " Laying, etc.	31,920.00
11	"	6' 3"	" " " " Sewer	550.00
1.86	"	5' 0"	" " " " " "	42.78
1,175	"	5' 0"	" " " " Pipe Sewer, exc. Laying, etc.	39,950.00
5.13	"	4' 9"	" " " " Sewer	82.08
233.1	"	4' 6"	" " " " Pipe Sewer (Precast Type B). Laying, etc.	9,478.50
5.70	"	4' 0"	" " " " " " Sewer	85.50
72	"	4' 0"	Circ. Rein. Conc. Sewer, Laying, etc.	936.00
353.10	"	3' 9"	Plain Concrete Sewer	6,346.50
27.9	"	3' 6"	Rein. Conc. Pipe Sewer (Precast Type B)	1,618.20
18.6	"	3' 3"	" " " " " "	632.40
1,377.10	"	3' 0"	" " " " " " (Precast Pipe), Laying, etc.	15,148.10
8.63	"	3' 0"	Plain Concrete Sewer	86.30
5.40	"	2' 9"	" " " " " "	54.00
522	"	2' 6"	Concrete Bridge Sewer	15,660.00
529.43	"	2' 6"	Rein. Conc. Sewer (Precast Type B)	8,470.88
1,450	"	2' 3"	" " " " Pipe Sewer, Excav., Laying, etc.	47,850.00
8	"	2' 3"	Plain Concrete Sewer	80.00
1,480	"	24"	Rein. Conc. Pipe Sewer, Excav., Laying, etc.	10,730.00
266.86	"	24"	" " " " " " (Precast Type B)	3,469.18
2,406.2	"	24"	" " " " " " " " " " Laid	14,390.96
10	"	24"	" " " " " " inc. Concr. Cradle	200.00
520	"	20"	Flexible Pressure Pipe (Precast), exc. Laying, etc.	1,040.00
3,580	"	15"	" " " " Joint Concrete Pipe, Laid	38,306.00
406	"	12"	" " " " " " " " " "	4,567.50
2,115	"	8' 0"	Precast Pipe Del. for Dbl. Bbl. Sewer	169,200.00
2,541	"	8' 0"	Circ. Precast Pipe Del. for Dbl. Bbl. Sewer and Comb. 2-sty. Sewer	83,853.00
136	"	7' 3"	Precast Pipe Del.	4,760.00
60	"	7' 0"	Rein. Conc. Pipe Sewer, Furn. and Del.	1,800.00
1,212	"	5' 0"	" " " " " " (Precast Type B), Del.	32,724.00
480	"	4' 6"	" " " " " " " " " "	12,960.00
2,180	"	4' 3"	" " " " " " " " " "	54,500.00
24	"	4' 0"	" " " " " " " " " "	480.00
100	"	4' 0"	" " " " " " Dbl. Bbl. Type B, Del.	4,000.00
62	"	4' 0"	" " " " " " " " R. E. Sec., Del.	2,480.00
1,627.1	"	3' 0"	" " " " " " (Precast Type B), Del.	11,762.60
248	"	2' 9"	" " " " " " " " " "	2,604.00

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		Cost
264	cu. yds. Concrete on Tunnel Shaft No. 4.....	\$4,224.00
8,000	" Displaced Material from Sewer.....	2,250.00
14,200	" " " " " for const. of sewer em- bankment.....	4,260.00
5,932	" Earth Excavation for Roadway, etc.....	8,866.00
8,475	" " Fill for Sewer Embankment.....	3,437.50
1,565	" Excavation on Tunnel Shaft No. 2.....	14,085.00
800	" " " " " No. 3.....	11,200.00
750	" " " " " No. 4.....	10,500.00
600	" " " " " at Lawrence St. and 40th Ave.....	8,400.00
9,916.52	" Fill for Sewer Embankment.....	4,525.52
2,270.64	" Rock Excavation.....	27,870.62
1,798.05	" " Excavated and Removed.....	25,975.50
935	" Top Soil Excavation, excavated, etc.....	\$187.00
240	lbs. New Bolts, Nuts and Spikes.....	48.00
98,950	" Reinforced Steel for Pump Chamber, Delivered.....	5,937.00
229,000	" " " Retaining Walls, etc.....	20,512.75
112,100	" Steel (Reinforcement), Delivered.....	5,605.00
1	Chamber at Honeywell St. and Queens Blvd.....	600.00
1	" " Thomson Ave. and Van Dam St.....	300.00
1	" " Connection for Leavitt Park Drain.....	420.00
1	Conn. Chamber, inc. M. H. Head and Cover, etc.....	700.00
1	Junction Chamber at Autumn and Sutter Aves.....	1,000.00
1	" " " 51st and Waldron Sts.....	1,000.00
1	" " " Hudson St. and Beaufort Ave.....	600.00
1	" " " Liberty Ave. and 80th St.....	3,000.00
1	" " " Myrtle and Whitestone Aves.....	2,400.00
1	" " " 130th St. and Metropolitan Ave.....	800.00
10	per cent Upstream Drop Chamber.....	700.00
7	Gibby Side Gates.....	175.00
253	Inlets.....	17,140.00
63	lin. ft. 4' 0" x 4' 0" R. C. Culvert, etc.....	1,386.00
441	Manholes.....	59,187.00
12	" " on Flex. Jt. R. C. Sewers.....	3,060.00
26	" " Pressure Pipe Sewer.....	6,630.00
14	" " R. C. P. Sewers.....	2,300.00
13	" " Storm Water Sewer.....	1,462.50
49	" " Vitrified Pipe Sewer.....	4,020.00
170	Basin Manholes.....	25,969.00
1	Drop Chamber at 130th St. and Hillside Ave.....	200.00
5	Shallow Manholes.....	450.00
9	Park Inlet Basins.....	765.00
3	8" Spurs on Rein. Conc. Sewers.....	.03
728	6" " " " " " ".....	579.96
2,941	6" " " " " " ".....	6,308.87
1	Brickwork (approx. 3,000 N. R. Brick) in Screening Bldg. Extra Work, etc., on Receiving Basins, etc., 2d Ave., 1st Ward.....	5,250.00
1	Foundation for Screening Bldg., inc. excavation, etc.....	102.85
1	Granite and Bluestone, etc., in Screening Bldg.....	13,500.00
1	Increaser for Dbl. Bbl. Sewer to Screening Bldg.....	1,725.00
1	Metal Lath, inc. Exp. Metal Ceiling.....	3,750.00
1	Plastering, inc. Three Coats of King's Finish.....	150.00
1	Sealed Outlet, complete.....	412.00
1	Terra Cotta Hollow Tile Partition.....	5,250.00
1	" " " " " " ".....	225.00
30	per cent Transition Section.....	225.00
		3,300.00
		<hr/>
		\$1,979,232.83

There were built:

20,279.57 lin. ft. or 3.8408+ miles of Concrete Sewer.

52,321.89 " " 9.9094+ miles of Pipe Sewer.

188 Receiving Basins.

CONTRACTS COMPLETED

	Cost
MYMAUD PL. from Fresh Pond Road to Mt. Olivet Ave.....	\$5,434.75
ATLANTIC AVE., N. S., from Rockaway Blvd. to Bigelow Ave., and in	
YARMOUTH ST. from Atlantic Ave. to Syosset St.....	81,781.16
Reconstruction of an outlet sewer in line of 43d St. in Flushing Bay.....	35,328.06
WOODLAND AVE. from Huntington St. to Beaufort Ave.,	
BEAUFORT AVE. from Boyd to Hatch Aves.,	
WALKER AVE. from Beaufort to Woodhaven Aves.,	
WOODHAVEN AVE. from Walker Ave. to Fulton St.....	191,711.73
WILSON AVE. from 15th to 16th Aves.....	5,677.03
WOODBINE ST. from Forest to Prospect Ave.....	2,772.44
HOWARD ST. from Forest Parkway to a point about 275' 0" East.....	1,436.88
DIAMOND ST. from Atlantic Ave., N. S., to Fulton St.....	2,726.10
PIERCE AVE. from Fifth to Sixth Aves.....	1,036.33
OXFORD AVE. from Jamaica to Brandon Aves.....	2,383.45
BIRCH ST. from Jamiaca Ave. to a point about 230' 0" South of Jamaica	
Ave.....	1,077.20
STOCKHOLM ST. from Seneca to Onderdonk Aves.....	943.21
JUNCTION AVE. from Alstyne to Corona Aves.....	2,948.40
LAUREL HILL AVE. from Towns Pl. to a point about 300' 0" North of	
Towns Pl.....	2,907.05
Temporary sanitary sewer in 87TH AVE. (PIERSON ST.) from Queens	
Bld. to 143d St. (Jaffrey Ave.).....	3,766.53
Receiving basins on easterly and southerly corners of WILBUR AVE. and	
VAN ALST AVE.....	1,548.00
HERALD AVE. from Beaufort Ave. to a point about 315' 0" South of	
Beaufort Ave.....	2,211.42
20TH ST. (ARLINGTON AVE.) from Woodside Ave. to Broadway with a	
temporary connection to existing sewer in Woodside Ave.....	2,901.30
CASCO ST. from Forest Parkway to Yarmouth St.....	2,448.30
Receiving basins in SECOND AVE. at the southerly corner of Woolsey Ave.,	
on southerly corner of Astoria Ave. and inlet basins on southerly corner	
of Hoyt Ave. on northerly corner of Hoyt Ave. and on the easterly	
corner of Cushing Pl.....	1,808.75
16TH AVE. from Grand to Vanderventer Aves.....	3,458.87
QUEENS BLVD., S. S., from Van Dam to Honeywell Sts., across Queens	
Bld. at Honeywell St. from south side to north side and in	
QUEENS BLVD., N. S., from Honeywell to Buckley Sts.,	
BUCKLEY ST. from Queens Blvd., N. S., to Skillman Ave.,	
SKILLMAN AVE. from Buckley to Lowery Sts.,	
HULST ST. from Skillman to Foster Aves.,	
VAN PELT ST., from Skillman to Foster Aves ,	
HAROLD AVE. from Skillman Ave. to a point about 250' 0" South of	
Skillman Ave.,	
BRAGAW ST. from Skillman to Foster Aves.,	
LOWERY ST. from Skillman to Foster Aves.....	79,769.25
51ST ST. from Lurting (Willow) to Waldron Sts. (Lawn Ave.).....	376,879.96
HERBERT ST. from Van Cott Ave. to a point about 105' 0" East of	
High St.....	970.83

	Cost
Temporary open drain in GENESEE ST. from South Conduit to Wortman Aves.....	\$92,279.53
SANFORD AVE. from Forbes (18th) to Gerold (19th) Sts., and in GEROLD (19TH) ST. from Sanford Ave. to Lucerne Pl.....	5,428.48
CUSTER (15TH) ST. from a point about 25' 0" North of Beech Ave. to Beech Ave., and in BEECH AVE. from Custer to Murray Sts.....	1,795.78
LAWSON PL. (24TH ST.) from Queens Ave. to the crown about 199' 0" north of Franconia Ave.....	7,163.01
Temporary Sewer in ANABLE AVE. from Jackson Ave. to a point 275' 0" south of Jackson Ave.....	1,286.00
DEPOT LANE from Joslin (22nd) to Norwood (26th) Sts., and in NORWOOD (26TH) ST. from Depot Lane to Crocheron Ave.....	16,542.92
HALLETT ST. from Ditmars to Wolcott Aves.....	7,253.57
COX PL. from Grand St. to Flushing Ave.....	6,897.92
Receiving basins on the northeast and northwest corners of Manor Ave. and Avondale St.....	1,000.00
Park inlet basins at the westerly end of Woodmere Pl.....	160.00
Temporary sanitary sewer in PROSPECT ST. from Atlantic St. to Cumberland St.....	3,785.75
39TH ST. from Junction to Hayes Aves.....	3,449.09
HOWLAND ST. from Ditmars to Wolcott Aves.....	4,037.08
Receiving basin on the easterly and westerly sides of GREENWOOD AVE. about 400' 0" north of Jerome Ave.....	1,094.00
ARCADIA AVE. from a point 150' 0" northerly from 16th Ave. to a point about 150' 0" southerly from 16th Ave.....	2,335.55
CORONA AVE. from Alstyne Ave. to Casper Pl. and from Cobb Pl. to Louona Ave., and in MERRIT PL. from Corona to Junction Aves.....	12,794.24
MAURE AVE. (GREEN ST.) from Metropolitan Ave. to Kew Gardens Road, HILLSIDE AVE., N. S., from Maure Ave. to Cottage St., and in COTTAGE ST. from Hillside Ave. to Kew Gardens Road, with a temporary connection to the sewer in Hillside Ave.....	21,755.27
	<hr/> \$1,002,985.19

ASSESSMENT MAPS AND LISTS COMPLETED AND FORWARDED TO BOARD OF
ASSESSORS

	Total Cost
HOBSON ST. from Newtown Creek to Halle Ave. and a combined sewer in HOBSON AVE. from Halle Ave. to Jones St., JONES AVE. from Clifton Ave. to Laurel Hill Blvd., LAUREL HILL BLVD. from Jones to Borden Aves., MONTGOMERY AVE. from Columbine to Jones Aves., CONGRESS AVE. from Laurel Hill Blvd. to Montgomery Ave., TOWNSEND AVE. from Laurel Hill Blvd. to Hobson Ave., WATERS AVE. from Hobson to Clifton Aves., JOY AVE. from Montgomery to Clifton Aves., COLUMBINE AVE. from Hobson to Clifton Aves., CLIFTON AVE. from Waters to Columbine Aves., with a temporary connection to the sewer in Columbine Ave.....	\$203,749.15
RALPH ST. from Fresh Pond Road to Traffic St., and in TRAFFIC ST. from Ralph to Grove Sts.....	13,413.23

	Total Cost
KAISER ST. from Jamaica Ave. to Ashland St.,	
WILLARD AVE. from Jamaica Ave. to Ashland St.,	
OAKLAND ST. from Kaiser St. to Manor Ave.,	
BRANDON AVE. from Woodhaven to Willard Aves.,	
ELMWOOD ST., from Kaiser St. to Willard Ave.,	
FERRISS ST. from Kaiser St. to Willard Ave.,	
AVONDALE ST. from Kaiser St. to Willard Ave.,	
ASHLAND ST. from Woodhaven to Willard Aves., and in	
MANOR AVE. from Ashland St. to a point about 175' 0" north of Ashland	
St.	\$39,697.62
MYMAUD PL. from Fresh Pond Road to Mt. Olivet Ave.	6,315.13
REMSEN PL. from Grand St. to Parry Ave.	889.17
WILSON AVE. from 15th to 16th Aves., and in	
16TH AVE. from Wilson to Vanderventer Aves.	6,571.65
WOODBINE ST. from Forest to Prospect Ave.	3,728.84
DIAMOND ST. from Atlantic Ave., N. S., to Fulton St.	3,270.58
HOWARD ST. from Forest Parkway to a point about 275' 0" east.	1,793.67
OXFORD ST. from Jamaica to Brandon Aves.	2,868.68
BIRCH ST. from Jamaica Ave. to a point about 230' 0" south of Jamaica	
Ave.	1,307.16
PIERCE AVE. from 5th to 6th Aves.	1,477.55
87TH AVE. (PIERSON ST.) from Queens Blvd. to 143d St. (Jaffrey Ave.).	4,535.68
JUNCTION AVE. from Alstyne to Corona Aves.	3,553.36
WOODLAND AVE. from Huntington St. to Beaufort Ave.,	
BEAUFORT AVE. from Boyd to Hatch Aves.,	
WALKER AVE. from Beaufort to Woodhaven Aves., and in	
WOODHAVEN AVE. from Walker Ave. to Fulton St.	200,986.39
ATLANTIC AVE., N. S., from Rockaway Blvd. to Bigelow Ave. (92d St.),	
and in	
YARMOUTH (85TH) ST. from Atlantic Ave. to Syosset St.	86,971.39
GENESEE ST. from So. Conduit to Wortman Aves.	98,301.22
51ST ST. from Lurting to Waldron Sts.	403,588.76
ANABLE AVE. from Jackson Ave. to a point 275' 0" south of Jackson Ave.	1,747.92
20TH ST. (ARLINGTON AVE.) from Woodside Ave. to Broadway, with a	
temporary connection to existing sewer in Woodside Ave.	3,423.70
LAUREL HILL AVE. from Towns Pl. to a point about 300' 0" north of	
Towns Pl.	3,415.76
HERBERT ST. from Van Cott Ave. to a point about 105' 0" east of High	
St.	1,305.93
HERALD AVE. from Beaufort Ave. to a point about 315' 0" south of	
Beaufort Ave.	2,507.11
CASCO ST. from Forest Parkway to Yarmouth St.	2,796.38
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	\$1,098,216.03

IMPROVEMENTS FOR WHICH PRELIMINARY AUTHORIZATION WAS GRANTED

	Estimated Cost
HOWLAND ST. from Ditmars to Wolcott Aves.	\$3,900.00
76TH ST. (LOTT AVE.) from 93d Ave. (Pratt Pl.) to 88th Ave. (Syosset	
St.),	
77TH (RECTOR) ST. from Rockaway Blvd. to 90th Ave. (Clinton Pl.),	
and in	
ROCKAWAY BLVD. from 78th St. (Snediker Ave.) to 76th St. (Lott Ave.)	20,500.00

	Estimated Cost
MUELLER ST. (FISK AVE.) from Hull to Borden Aves.....	\$4,300.00
LIBERTY AVE. from Amber (77th) St. to Borough Line,	
JEROME (101ST) AVE. from Amber (77th) St. to Borough Line,	
BEAUFORT (97TH) AVE. from Hudson (80th) St. to Ruby (75th) St.,	
CHICHESTER (95TH) AVE. from Hudson (80th) St. to Ruby (75th) St.,	
RUBY (75TH) ST. from Jerome 101(st) to Atlantic Ave., S. S., and in	
EMERALD (76TH) ST. from Liberty to Atlantic Aves., S. S.....	53,200.00
LURTING ST. from Way Ave. to Nicolls St.,	
NICOLLS ST. from Louona Ave. to 51st St.,	
PROVOST ST. from Corona Ave. to 51st St.,	
ALSTYNE AVE. from Way Ave. to Radcliffe St., and in	
CHRISTIE ST. from Corona to Alstyne Aves.....	25,200.00
Temporary sanitary sewer in PROSPECT ST. from Atlantic St. to Cum-	
berald St.....	2,100.00
MAURE AVE. from Metropolitan Ave. to Kew Gardens Road,	
HILLSIDE AVE., N. S., from Maure Ave. to Cottage St., and in	
COTTAGE ST. from Hillside Ave. to Kew Gardens Road, with a tempor-	
ary connection to the sewer in Hillside Ave.....	11,200.00
BROAD ST. from Maspeth to Clinton Aves.....	1,600.00
LIBERTY AVE. from Rockaway Blvd. to 99th St. (Ocean Ave.),	
103D (KIMBALL) AVE. from Rockaway Blvd. to 97th (Hatch Ave.) St.,	
101ST (JEROME) AVE. from 90th St. (Woodland Ave.) to 97th St. (Hatch	
Ave.),	
95TH (CHICHESTER) AVE. from 90th St. (Woodland Ave.) to Wood-	
haven Ave.,	
89TH ST. (OCEAN VIEW AVE.) from 97th (Beaufort) to 95th (Chi-	
chester) Ave.,	
90TH ST. (WOODLAND AVE.) from 97th (Beaufort) to 95th (Chichester)	
Aves.,	
91ST (THRALL) AVE., from Rockaway Blvd. to 95th (Chichester) Ave.,	
92D ST. (BIGELOW) AVE.) from Rockaway Blvd. to 95th (Chichester)	
Ave.,	
93D ST. (CLINTON PL.) from 103d (Kimball) to Atlantic Aves.,	
94TH ST. (WALKER AVE.) from Rockaway Blvd. to 97th (Beaufort)	
Ave.,	
WOODHAVEN AVE. from Rockaway Blvd. to 95th (Chichester) Ave.	
95TH ST. (HOPKINSON and FLUSHING AVES.) from Woodhaven to	
Atlantic Aves.,	
96TH ST. (Vanderveer Ave.) from Liberty to 103d (Belmont) Aves.,	
97TH ST. (Hatch AVE.) from Liberty to 103d (Belmont) Aves.,	
98TH ST. (THEDFORD AVE.) from Liberty to 103d (Belmont) Aves.,	
99TH ST. (OCEAN AVE.) from Liberty Ave. to crown about 430' 0" North	
of Liberty Ave.....	106,000.00
BLEECKER ST. from Fresh Pond Road to Prospect Ave., and in	
VINCENT ST. from Ralph to Bleecker Sts.....	4,600.00
MARSTON AVE. from Beekman (14th) St. to Boerum Ave., and in	
MURRAY ST. from Amity St. to Marston Ave.....	6,500.00
MARLOWE AVE. from Alstyne to Corona Aves.,	
CORONA AVE. from Way to Louona Aves.....	9,500.00
OPDIKE ST. from 51st St. to Alburtis Ave.,	
CROWN PL. from Opdike to Provost St.....	6,400.00
PIERCE AVE. from Fourth to Fifth Aves.....	1,200.00
CENTRAL AVE. from Proctor St. to Weisse Ave.,	
MORTON AVE. from Central to Metropolitan Aves.,	
HOSACK ST. from Morton to Weisse Aves., and in	
WEISSE AVE. from Central to Metropolitan Aves.....	96,900.00

	Estimated Cost
ARCADIA AVE. from 150' 0" northerly from 16th Ave. to a point about 150' 0" southerly from 16th Ave.....	\$2,200.00
37TH (WARREN) ST. from Hunt St. to Roosevelt Ave.....	8,600.00
COOPER AVE. from Irving to Wyckoff Aves.....	3,100.00
FERGUSON ST. from 51st St. to Tiemann Ave.,	
ROOSEVELT AVE. from 51st to De Peyster Sts.,	
GUNTHER ST. from 51st St. to a point 700' 0" east of Tiemann Ave.,	
HAVEMEYER ST. from 51st St. to 720' 0" east of Tiemann Ave.,	
KINGSLAND AVE. from 51st St. to 520' 0" east of Tiemann Ave.,	
NO. RAILROAD AVE. from 51st St. to Tiemann Ave.,	
SO. RAILROAD AVE. from 51st St. to Tiemann Ave.,	
LURTING ST. from 51st St. to Tiemann Ave.,	
NICOLLS ST. from 51st St. to Tiemann Ave.,	
OPDYKE ST. from 51st St. to Tiemann Ave.,	
PROVOOST ST. from 51st St. to Tiemann Ave.,	
RADCLIFF ST. from 51st St. to Tiemann Ave., and in	
TIEMANN AVE. from Ferguson to Radcliff Sts.....	127,500.00
VAN DAM ST., E. S., from Hunterspoint Ave. to Gale St.,	
GALE ST. from Van Dam St. to Borden Ave., N. S.	
YOUNG ST. from Gale St. to Hunterspoint Ave.....	12,500.00
BORDEN AVE. from Dutchkills Creek to Orton St.,	
ORTON ST. from Hunterspoint to Borden Aves.,	
BORDEN AVE. from Orton St. to Starr Ave.,	
STARR AVE. from Borden Ave. to Young St.,	
YOUNG ST. from Starr to Borden Aves., and in	
BORDEN AVE., S. S., from Young to Pearsall Sts.....	600.00
76TH ST. (LOTT AVE.) from 88th Ave. (Syosset St.) to Jamaica Ave.,	
77TH (RECTOR) ST. from 90th Ave. (Clinton Pl.) to Jamaica Ave.,	
87TH ROAD 2D ST.) from 78th St. (Snediker Ave.) to 80th St. (Shaw Ave.),	
88TH AVE. (3D ST.) from 76th St. (Lott Ave.) to 80th St.,	
88TH ROAD (4TH ST.) from 78th to 85th (Yarmouth) Sts.,	
89TH AVE. (5TH ST.) from 78th St. to a point 100' 0" east of 86th (Ferry St.,	
90TH AVE. 6TH ST.) from 77th (Rector) to 84th (Digby) St.,	
90TH ROAD (7TH ST.) from 78th St. (Snediker Ave.) to 84th St.,	
91ST AVE. (8TH ST., FULTON ST.) from 78th to 89th Sts. (Ocean View Ave.),	
ROCKAWAY BLVD. from Atlantic Ave., N. S., to 79th St. (Dakota Ave.),	
79TH ST. (DAKOTA AVE.) from Rockaway Blvd. to 91st Ave. (8th St.),	
80TH ST. (SHAW AVE.) from Atlantic Ave., N. S. to 88th Ave. (3d St.),	
81ST ST. (NEVADA AVE.) from Atlantic Ave., N. S., to 91st Ave.,	
82D ST. (MONTANA AVE.) from Atlantic Ave., N. S., to 91st Ave.,	
84TH (DIGBY) ST. from Atlantic Ave., N. S., to 89th Ave. (5th St. exc. sewer on westerly side between 91st ave. and 90th Road),	
86TH (FERRY) ST. from Atlantic Ave., N. S., to 89th Ave. (5th St.),	
87TH ST. (BENEDICT AVE.) from Atlantic Ave., N. S., to 89th Ave.,	
88TH ST. (BOYD AVE.) from Atlantic Ave., N. S., to 89th Ave.,	
89TH ST. (OCEAN VIEW AVE.) from Atlantic Ave., N. S., to 91st Ave. (Fulton St.),	
90TH ST. (WOODLAND AVE.) from Atlantic Ave., N. S., to 91st Ave.,	
91ST ST. (THRALL AVE.) from Atlantic Ave., N. S., to 91st Ave.....	145,000.00
LAUREL HILL AVE. from Jackson to Foster Ave., with a temporary connection to sewer in Jackson Ave.,	
BARNETT AVE. from Laurel Hill to Middleburg Aves.,	
MIDDLEBURG AVE. from Barnett to Packard Sts.,	

	Estimated Cost
PACKARD ST. from Middleburg to Foster Ave.,	
SKILLMAN AVE. from Laurel Hill Ave. to Hancock Pl.,	
LOCUST ST. from Skillman to Foster Ave.....	\$152,500.00
PLATWOOD AVE. from Rockaway Blvd. to Kern Pl., and in	
KERN PL. from Platwood Ave. to Rockaway Blvd.....	10,000.00
ARMAND PL. from Walter St. to Charlotte Pl.....	2,800.00
7TH AVE. from Washington to Pierce Ave.....	3,100.00
39TH ST. from Junction to Hayes Ave.....	3,200.00
Tunnel sewer in 13TH ST. from Fillmore to Polk Aves.,	
POLK AVE. from 13th St. to Fisk Ave.,	
FISK AVE. from Polk Ave. to Queens Blvd., inc. high level sewer in	
FISK AVE. from Polk Ave. to Queens Blvd.....	1,593,900.00
Temporary sewer in FULTON ST. (JAMAICA AVE.) from Harvard Ave.	
to Carroll St.....	6,100.00
WEIL PL. from Flushing Ave. to No. Washington Pl.....	4,000.00
MUELLER ST. from Hull Ave. to Falkner St. (Prospect Ave.).....	3,600.00
NOSTRAND PL. from Jamaica Ave. to crown about 370' 0" north of	
Jamaica Ave.....	3,000.00
75TH ST. (EADS AVE.) from 93d Ave. (Pratt Pl.) to Jamaica Ave.,	
87TH AVE. (MELVILLE PL.) from 75th St. to Elderts Lane,	
87TH ROAD (DEAN ST.) from 75th St. to Elderts Lane,	
88TH AVE. (SYOSSET ST.) from 76th St. to Elderts Lane,	
90TH AVE. from 75th St. to Elderts Lane.....	50,000.00
STRONG ST. from 51st St., to Tiemann Ave.,	
TORY ST. from 51st St. to Tiemann Ave.,	
UNITY ST. from Corona to Tiemann Aves.,	
VARICK ST. from Corona to Tiemann Aves.,	
WOODHULL ST. from Corona to Tiemann Aves.,	
ORONTES ST. from 51st St. to Corona Ave.,	
CORONA AVE. from 51st to Woodhull Sts., and in	
TIEMANN AVE. from Strong to Woodhull Sts.....	67,800.00
16TH AVE. from N. Y. Connecting Ry. to Flushing Ave. and a temporary	
sewer in FLUSHING AVE. from 16th Ave. to a point about 100' 0"	
westerly.....	6,000.00
MARION ST. from a point about 250' 0" north of Webster Ave. to Wash-	
ington Ave.....	1,200.00
MANOR AVE. from Fulton St. to Atlantic Ave.....	7,600.00
	<hr/>
	\$886,800.00

IMPROVEMENTS FOR WHICH FINAL AUTHORIZATION WAS GRANTED

	Amount
SANFORD AVE. from Forbes (18th) to Gerold (19th) Sts.,	
GEROLD (19TH) St. from Sanford Ave. to Lucerne Pl.....	\$5,100.00
DEPOT LINE from Joslin (22d) to Norwood (26th) Sts., and in	
NORWOOD (26TH) ST. from Depot Lane to Crocheron Ave.....	11,600.00
RUST ST. from James St. to Flushing Ave.,	
FLUSHING AVE. from Rust to James Sts., exc. intersection of Broad St.,	
HEBBARD AVE. from Flushing to Collins Ave.,	
MT. OLIVET AVE. from Flushing to Collins Aves., and in	
BROAD ST. from Grand to James Sts. and from Hebbard to Mt. Olivet	
Aves.....	38,800.00
ORMOND (27TH) ST. from Crocheron Ave. to the crown about 350' 0"	
north of Crocheron Ave.	

NORWOOD PL. (26TH ST.) from Crocheron Ave. to State St.,	
MILLIARD (25TH) ST. from Crocheron Ave. to State St.,	
LAWSON (24TH) ST. from Crocheron Ave. to State St.,	
KENDALL (23D) ST. from State St. to 730' 0" north,	
JOSLIN (22ND) ST. from Jackson to Mitchell Aves.,	
INKERMAN (21ST) ST. from State St. to Mitchell Ave.,	
HOOGLAND (20TH) ST. from Jackson to Mitchell Aves.,	
GRENNELL (19TH) St. from Jackson to Mitchell Aves.,	
FORBES (18TH) ST. from State St. to Mitchell Ave.,	
EAGLE (17TH) ST. from Jackson to Mitchell Aves.,	
DUNSING (16TH) ST. from Mitchell Ave. to a point about 370' 0" south of Mitchell Ave.,	
CLARENCE (15TH) ST. from Mitchell Ave. to a point about 300' 0" south of Mitchell Ave.,	
JACKSON AVE. from Joslin (22nd) to Forbes (18th) Sts.,	
STATE ST. from Norwood (26th) to Dunsing (16th) Sts.,	
MITCHELL AVE. from Inkerman (21st) to Beekman (14th) Sts., and in CROCHERON AVE. from Joslin (22nd) to Ormond (27th) Sts.	\$216,100.00
LYON AVE. from Ditmars Ave. to Gillmore St.,	
BUTLER ST. from Lyon to Banks Aves.,	
CURTIS ST. from Lyon to Banks Aves.,	
ERICSSON ST. from Lyon to Banks Aves.,	
GILLMORE ST. from Lyon to Astoria Aves.	27,400.00
ALSTYNE AVE. from Junction Ave. to Card Place,	
LURTING ST. from Junction Ave. to 500' 0" west,	
NO. RAILROAD AVE. from Junction Ave. to 600' 0" west,	
HUNT ST. from Luydig Place to Van Dine St., and in JUNCTION AVE. from Hunt St. to Roosevelt Ave.	33,400.00
FLUSHING AVE. from Collins to Clermott Aves.,	
CLERMONT AVE. from Flushing Ave. to Hemlock Place.	21,700.00
CORONA AVE. from Alstyne to Junction Aves.,	
GERRY AVE. from Junction Ave. to Toledo St.,	
JUNCTION AVE. from Corona to Maurice Aves.; The low level sewer in	
MAURICE AVE. from Junction Ave. to Broadway; The high level sewer in	
MAURICE AVE. from Junction Ave. to Toledo St., and a sewer in BROADWAY from Maurice Ave. to St. James Pl., with a temporary con- nection to existing sewer in Broadway at St. James Pl.	367,300.00
CORONA AVE. from Alstyne Ave. to Casper Pl., and from Cobb Pl. to Louona Ave., and in	
MERRIT PL. from Corona to Junction Aves.	10,600.00
HALLETT ST. from Ditmars to Wolcott Aves.	7,800.00
LAWSON PL. (24TH ST.) from Queens Ave. to crown about 199' 0" north of Franconia Ave.	7,000.00
CUSTER (15TH) ST. from a point about 25' 0" north of Beech Ave. to Beech Ave., and in	
BEECH AVE. from Custer to Murray Sts.	1,700.00
FLUSHING AVE. from Rust to Caspian Sts.	9,100.00
16TH AVE. from Grand to Vanderventer Aves.	3,600.00
HOWLAND ST. from Ditmars to Wolcott Aves.	4,800.00
76TH ST. (LOTT AV.) from 93d Ave. (Pratt Pl.) to 88th Ave. (Syosset St.),	
77TH (RECTOR) ST. from Rockaway Blvd. to 90th Ave. (Clinton Pl.) and in	
ROCKAWAY BLVD. from 78th St. (Snediker Ave.) to 76th St. (Lott Ave.)	40,900.00
MUELLER ST. (FISK AVE.) from Hull to Borden Aves.	7,100.00

	Amount
LURTING ST. from Way Ave. to Nicolls St.,	
NICOLLS ST. from Louona Ave. to 51st St.,	
PROVOOST ST. from Corona Ave. to 51st St.,	
ALSTYNE AVE. from Way Ave. to Radcliffe St.,	
CHRISTIE ST. from Corona to Alstyne Aves.....	\$40,800.00
Temporary sanitary sewer in PROSPECT ST. from Atlatic St. to Cumberland St.....	4,200.00
MAURE AVE. (GREEN ST.) from Metropolitan Ave. to Kew Gardens Rd.,	
HILLSIDE AVE., N. S., from Maure Ave. to Cottage St., and in	
COTTAGE ST. from Hillside Ave. to Kew Gardens Road, with a temporary connection to sewer in Hillside Ave.....	15,700.00
BROAD ST. from Maspeth to Clinton Aves.....	3,500.00
BLEECKER ST. from Fresh Pond Road to Prospect Ave., and in	
VINCENT ST. from Ralph to Bleecker Sts.....	7,800.00
MARSTON AVE. from Beeckman (14th) St. to Boerum Ave., and in	
MURRAY ST. from Amity St. to Marston Ave.....	12,800.00
PIERCE AVE. from 4th to 5th Aves.....	1,800.00
ARCADIA AVE. from 150' 0" northerly from 16th Ave. to a point about 150' 0" southerly from 16th Ave.....	2,900.00
LAUREL HILL AVE. from Jackson to Foster Aves., with a temporary connection to the sewer in Jackson Ave.,	
BARNETT AVE. from Laurel Hill to Middleburg Aves.,	
MIDDLEBURG AVE. from Barnett Ave. to Packard St.,	
PACKARD ST. from Middleburg to Foster Aves.,	
SKILLMAN AVE. from Laurel Hill Ave. to Hancock Pl.,	
LOCUST ST. from Skillman to Foster Aves.....	341,400.00
SEVENTH AVE. from Washington to Pierce Aves.....	4,100.00
39TH ST. from Junction to Hayes Aves.....	4,200.00
Temporary sewer in FULTON ST. from Harvard Ave. to Carroll St.....	6,100.00
	<hr/> \$1,259,300.00

CONTRACTS AWARDED

	Contract Price
PIERCE AVE. from 5th to 6th Aves.....	\$985.01
LAUREL HILL AVE. from Towns Pl. to a point about 300' 0" north of Towns Pl.....	2,745.76
Temporary sanitary sewer in 87TH AVE. (PIERSON ST.) from Queens Blvd. to 143d St. (Jaffrey Ave.).....	3,822.05
Automatic electric pumping station at GENESSEE ST. and NO. CONDUIT AVE., to lay temporary pressure pipe in No. CONDUIT AVE. from Genesee St. to Sutter Ave. and in SUTTER AVE. from No. Conduit Ave. to Elderts Lane, and a temporary drain in SUTTER AVE. from Elderts Lane to Railroad Ave., Boroughs of Brooklyn and Queens.....	173,979.00
BIRCH ST. from Jamaica Ave. to a point about 230' 0" south of Jamaica Ave....	1,089.30
COX PL. from Grand St. to Flushing Ave.....	5,423.51
HAYDOCK (20TH) ST. from Queens to Franconia Aves., and in	
FRANCONIA AVE. from Haydock to Idaho (21st) Sts.....	7,064.56
HERALD AVE. from Beaufort Ave. to a point about 315' 0" south of Beaufort Ave.....	2,342.21
SANFORD AVE. from Forbes (18th) St. to Gerold (19th) St., and in	
GEROLD (19TH) ST. from Sanford Ave. to Lucerne Pl.....	5,380.69
ALSTYNE AVE. from Junction Ave. to Card Pl.,	
LURTING ST. from Junction Ave. to a point 600' 0" westerly,	
NO. RAILROAD AVE. from Junction Ave. to a point 600' 0" westerly,	
HUNT ST. from Luydig Pl. to Van Dine St., and in	
JUNCTION AVE. from Hunt St. to Roosevelt Ave.....	33,170.95

CORONA AVE. from Alstyne to Junction Aves.,	
GERRY AVE. from Junction Ave. to Toledo St.,	
JUNCTION AVE. from Corona to Maurice Aves., the low level sewer in	
MAURICE AVE. from Junction Ave. to Broadway;	
The high level sewer in	
MAURICE AVE. from Junction Ave. to Toledo St., and from 480' 0" east	
of Broadway to Chicago Ave., and a sewer in	
BROADWAY from Maurice Ave. to St. James Pl., with a temporary con-	
nection to existing sewer in Broadway at St. James Pl.....	\$592,440.00
Receiving basins, etc., on SECOND AVE. at the southerly corner of Wool-	
sey Ave., on the southerly corner of Astoria Ave. and inlet basins on	
the southerly corner of Hoyt Ave., northerly corner of Hoyt Ave., and	
on the easterly corner of Cushing Pl.....	1,740.00
Receiving basins, etc., on the easterly and southerly corners of Wilbur Ave.	
and Van Alst Ave.....	1,250.00
DEPOT LANE from Joslin (22d) to Norwood (26th) Sts.,	
NORWOOD (26TH) ST. from Depot Lane to Crocheron Ave.....	13,510.00
ORMOND (27TH) ST. from Crocheron Ave. to crown about 350' 0" north	
of Crocheron Ave.,	
NORWOOD PL. (26TH ST.) from Crocheron Ave. to State St.,	
MILLIARD (25TH) ST. from Crocheron Ave. to State St.,	
LAWSON (24TH) ST. from Crocheron Ave. to State St.,	
KENDALL (23RD) ST. from State St. to 730' 0" north,	
JOSLIN (22D) ST. from Jackson to Mitchell Aves.,	
INKERMAN (21ST) ST. from State St. to Mitchell Ave.,	
HOOGLAND (20TH) ST. from Jackson to Mitchell Aves.,	
GRENNELL (19TH) ST. from Jackson to Mitchell Aves.,	
FORBES (18TH) ST. from State St. to Mitchell Ave.,	
EAGLES (17TH) ST. from Jackson to Mitchell Aves.,	
DUNSING (16TH) ST. from Mitchell Ave. to a point about 370' 0" south	
of Mitchell Ave.,	
CLARENCE (15TH) ST. from Mitchell Ave. to a point about 370' 0" south	
of Mitchell Ave.,	
JACKSON AVE. from Joslin (22d) to Forbes (18th) Sts.,	
STATE ST. from Norwood (26th) to Dunsing (16th) Sts.,	
MITCHELL AVE. from Inkerman (21st) to Beeckman (14th) Sts.,	
CROCHERON AVE. from Joslin to Ormond Sts.....	273,498.50
16TH AVE. from Grand to Vanderventer Aves.....	3,130.01
CUSTER (15TH) ST. from a point about 25' 0" north of Beech Ave. to	
Beech Ave., and in	
BEECH AVE. from Custer to Murray Sts.....	1,718.78
LAWSON PL. (24TH ST.) from Queens Ave. to crown about 199' 0" north	
of Franconia Ave.....	7,130.69
MAURE AVE. (GREEN ST.) from Metropolitan Ave. to Kew Gardens Road	
HILLSIDE AVE., N. S., from Maure Ave. to Cottage St.,	
COTTAGE ST. from Hillside Ave. to Kew Gardens Road, with a tempor-	
ary connection to the sewer in Hillside Ave.....	17,115.01
RUST ST. from James St. to Flushing Ave.,	
FLUSHING AVE. from Rust to James Sts., excluding intersection of	
Broad St.,	
HEBBARD AVE. from Flushing to Collins Aves.,	
MT. OLIVET AVE. from Flushing to Collins Aves.,	
BROAD ST. from Grand to James Sts., and from Hebbard to Mt. Olivet	
Aves.....	37,640.31
HALLETT ST. from Ditmars to Wolcott Aves.....	7,346.90

	Contract Price
CORONA AVE. from Alstyne Ave. to Casper Pl., and from Cobb Place to Louona Ave., and in	
MERRIT PL. from Corona to Junction Aves.....	\$13,078.00
Receiving basins at the N. E. and N. W. corners of MANOR AVE. and AVONDALE ST.....	\$1,000.00
Receiving basin at the east and west sides of GREENWOOD AVE., about 400' 0" north of Jerome Ave.....	1,094.00
Park inlet basin at the westerly end of WOODMERE PL. and L. I. R. R.....	160.00
FLUSHING AVE. from Collins to Clermont Aves.,	
CLERMONT AVE. from Flushing Ave. to Hemlock Pl.....	16,914.50
Temporary sanitary sewer, etc., in PROSPECT ST. from Atlantic St. to Cumberland St.....	3,764.50
LAUREL HILL AVE. from Jackson to Foster Aves., with a temporary connectiop to the sewer in Jackson Ave.,	
BARNETT AVE. from Laurel Hill to Middleburg Aves.,	
MIDDLEBURG AVE. from Barnett to Packard Sts.,	
PACKARD ST. from Middleburg to Foster Aves.,	
SKILLMAN AVE. from Laurel Hill Ave. to Hancock Pl.,	
LOCUST ST. from Skillman to Foster Aves.....	440,242.20
ARCADIA AVE. from 150' 0" northerly from 16th Ave. to a point about 150' 0" southerly from 16th Ave.....	2,336.00
HOWLAND ST. from Ditmars to Wolcott Aves.....	4,048.20
BROAD ST. from Maspeth to Clinton Aves.....	2,950.50
MUELLER ST. (FISK AVE.) from Hull to Borden Aves.....	5,703.00
LYON AVE. from Ditmars Ave. to Gillmore St.,	
BUTLER ST. from Lyon to Banks Aves.,	
CURTIS ST. from Lyon to Banks Aves.,	
ERICSSON ST. from Lyon to Banks Aves.,	
GILLMORE ST. from Lyon to Astoria Aves.....	23,370.00
39TH ST. from Junction to Hayes Aves.....	3,766.28
76TH ST. (LOTT AVE.) from 93d Ave. (Pratt Pl.) to 88th Ave. (Syosset St.),	
77TH (RECTOR) ST. from Rockaway Blvd. to 90th Ave. (Clinton Pl.), and in	
ROCKAWAY BLVD. from 78th St. (Snediker Ave.) to 76th St. (Lott Ave.)	33,694.55
LURTING ST. from Way Ave. to Nicolls St.,	
NICOLLS ST. from Louona Ave. to 51st St.,	
PROVOST ST. from Corona Ave. to 51st St.,	
ALSTYNE AVE. from Way Ave. to Radcliffe St.,	
CHRISTIE ST. from Corona to Alstyne Aves.....	33,425.16
Temporary sewer in FULTON ST. from Harvard Ave. to Carroll St.....	5,008.00
PIERCE AVE. from Fourth to Fifth Aves.....	1,369.00
BEECKMAN (14TH) ST. from State St. to Mitchell Ave.....	6,459.00
SOUTH ST. from the L. I. R. R. to Rockaway Turnpike, and in	
ROCKAWAY TURNPIKE from South St. to Lincoln (Lakewood) Ave.....	
Receiving basin on the northerly corner of ELMHURST AVE. and HAMP- TON (5TH) ST.....	640.30
	<hr/>
	\$1,791,546.83

On December 31, 1920, there were in brick and concrete, and pipe sewers, receiving basins and sewage purification plants, as follows:

73.3038 miles of Brick and Concrete Sewer;	
311.0094 " " Pipe Sewer;	
4,292 Receiving Basins;	
3 Sewage Purification Plants.	

DRAINAGE REPORT, 1920

Ward	Title	Sent to Board of Estimate and Apportionment	Approved by Board of Estimate and Apportionment	Area in Acres	Remarks
First	4-H and 4-L ¹⁶	Mar. 2, 1920	April 16, 1920	17.0	Total plans approved.
	3-H ¹	June 25, 1920	July 9, 1920	20.0	
	3-Aa and 3-Bb ¹¹	Oct. 25, 1920		2.0	
	7 ⁵	Oct. 23, 1920	Dec. 15, 1920	6.0	
	20-F ¹	Nov. 17, 1919	Feb. 27, 1920	400.0	{ 200 acres, Sanitary Sewers 200 " , Storm Sewers
	20 ¹²	April 9, 1920	May 14, 1920	5.0	Total plans submitted but not approved, actual acreage of territory on plan 994 acres
	20 ¹³	June 21, 1920	Oct. 15, 1920	3.0	Additional plans of trunks formally submitted but not approved, affecting 7,000 acres.
	20 ¹⁴	Oct. 19, 1920		150.0	
	21 ²⁴	Sept. 1920		25.0	
	21 ²⁵	Oct. 6, 1920		250.0	
	22 ⁴ and 28 ²	{ Informally, Sept. 16, 1920			Plan of trunks affecting 3,000 acres.
	23 ³	Dec. 4, 1920		225.0	
	Trunk Sewers 23, 27 and 26 ¹	Dec. 4, 1920		3,500.0	Affecting
	24 ²⁴	Dec. 24, 1919	Feb. 20, 1920	40.0	Total acreage including all above 12,637 acres.
	24 ²⁵	Feb. 16, 1920	April 9, 1920	5.0	
	24 ²⁶	Mar. 15, 1920	May 14, 1920	7.0	
Second	24 ²⁷	Sept. 17, 1920	Sept. 30, 1920	18.0	
	24-A ⁴	Feb. 16, 1920	April 9, 1920	12.5	
	24-A ⁵	July 13, 1920	July 16, 1920	5.0	
	25 ¹	Oct. 15, 1920		7.0	
	30-B ¹	Dec. 4, 1920		295.0	
	31	April 1, 1920	Oct. 15, 1920	420.0	
	31 ³	Dec. 4, 1920		25.0	
	33-A ⁶	Aug. 9, 1920	Oct. 22, 1920	10.0	
					NOTE.—In addition a complete study covering 24,500 acres has been made of the sanitary problem of the 4th Ward and is now ready for submission to Bd. of Est.

DRAINAGE REPORT, 1920—Continued

Ward	Title	Sent to Board of Estimate and Apportionment	Approved by Board of Estimate and Apportionment	Area in Acres	Remarks
Third	33-A ⁶ and 33-B ⁶	Sept. 8, 1920	Dec. 10, 1920	5.0	
	33-B ⁵	July 1920	Dec. 10, 1920	550.0	
	Whitestone (Cross Island Blvd.) ..			15.0	
	40-B ²¹	Sept. 24, 1920	Nov. 26, 1920	5.0	
Fourth	40-D ⁶	Feb. 16, 1920	April 9, 1920	30.0	
	40-E ⁹ and 41 ¹	Feb. 9, 1920	April 9, 1920	57.0	
	40-E ¹⁰	May 12, 1920	June 25, 1920	7.0	
	41 ²	June 28, 1920	Oct. 15, 1920	10.0	
	Temp. Sewer, Jamaica Ave.....	Aug. 1920	Aug. 31, 1920	10.0	
	50-S ¹	Oct. 22, 1920		3,500.0	Trunks affecting.

SUMMARY OF TESTS FOR 1920

	No. of Samples	Quantity
Bituminous Materials and Construction		
Road Oil for Cold Application.....	85	600,000 gals.
Road Oil for Hot Application.....	13	125,000 "
Bituminous Macadam Binder.....	29	174,232 "
Bituminous Joint Filler.....	38	186 tons
Asphaltic Cement.....	17	700 "
Asphaltic Paving Blocks.....	4	97,678 blocks
Sheet Asphalt.....	108	81,600 sq.yds.
Asphaltic Concrete.....	96	71,779 "
Bituminous Macadam.....	102	16,381 "
Fuel Oil.....	1	5,000 gals.
Non-Bituminous Materials		
Cement, Sewer Construction.....	109	152,525 bags*
Sand, " ".....	109	15,250 cu. yds.
Cement, Highway Construction.....	88	174,460 bags
Sand, " ".....	94	21,800 cu. yds.
Cement, Maintenance of Highways and Sewers.....	21	2,334 bags
Sand, " " " ".....	31	6,150 cu. yds.
Broken Stone and Gravel.....	38	20,000 "
Screens.....	17	9,596 "
Sand Grit.....	13	5,000 "
Wood Blocks: Hard Wood, Untreated.....	7	100,000 blocks
" " Pine, Creosoted.....	1	2,000 "
Granite Blocks.....	3	130,000 "
Oak Key Blocks.....	3	100,000 "
Steel for Reinforcement.....	1	42½ tons
Steam Ashes or Cinders.....	7	7,700 tons
Common Brick.....	1	.....
Supplies		
Disinfectant.....	13	22 bbls.
Lime.....	14	2,357 "
Soap.....	4	150 gals.
Lubricating Greases and Oils:		
Machine or Bearing Oil.....	3	15 bbls.
Steam Engine Cylinder Oil.....	4	14 "
Motor Oil.....	6	13 "
Gear Oil.....	2	3 "
Dynamo Oil.....	2	4 "
Oils, Paints and Varnish:		
Turpentine.....	4	290 gals.
Linseed Oil, Raw.....	2	150 "
" " Boiled.....	1	50 "
Shellac.....	1	10 "

* Subject to correction according to measured quantities of concrete to be stated in report of Bureau of Sewers.

SUMMARY OF TESTS FOR 1920—Continued

	No. of Samples	Quantity
Supplies—Continued		
Pigments in Oil:		
Red Lead.....	1	1,000 lbs.
White Lead.....	3	3,700 "
Ultramarine Blue.....	1	75 "
Coach Black.....	1	100 "
Pigments in Japan:		
Chrome Green.....	1	80 "
Venetian Red.....	1	80 "
Ready Mixed Paints:		
Black Heat Resisting.....	2	50 gals.
Vermillion.....	1	80 lbs.
Japan Dryers.....	1	25 gals.
Varnish.....	5	70 "
Miscellaneous:		
Boiler Compound.....	2	4 bbls.
Total.....	1,023	

BUREAU OF SEWERS

MAINTENANCE DIVISION

DUTIES AND FUNCTIONS

This division is responsible for the care of sewers and drainage systems, and the operation of disposal plants after construction. This work comprises the cleaning, repair and reconstruction of sewers, manholes, catch-basins, culverts and open drains, and the repair and renewal of equipment and buildings, as well as the operation of sewage disposal plants; the drawing of requisitions for materials, apparatus and open market contracts, investigation and report on sewer complaints and claims, and records of work and costs.

OPERATIONS, 1920

Basins Built.....	1
Manholes Built.....	6
Linear Feet Sewer Cleaned.....	63,880,843
Basins Cleaned.....	8,538
Cubic Yards Removed.....	10,847
Basins Repaired.....	29
" Relieved.....	57,298
Linear Feet Sewer Repaired.....	446
Manholes Repaired.....	30
" Cleaned.....	23,056
Open Drains Cleaned.....	692,773
Loads Removed, Sewers.....	6,773
" " Basins.....	22,168
" " Drains.....	3,791
Manhole Covers Replaced (24').....	52
Gallons Sewage Pumped and Treated, Newtown.....	518,200,000
" " " " " , Jamaica.....	1,656,502,000
" " " " " Far Rockaway.....	467,089,000

BUREAU OF STREET CLEANING

WORK ACCOMPLISHED

760,220,790 sq. yds. pavement were cleaned by hand during 1920
9,883,226 " " " " " machine
96,000 cu. yds. snow were removed
178,047 lin. ft. " removed from crosswalks
233,617 " " " " gutters
822,774 " " " " streets
825,930 cu. yds. ashes, garbage, rubbish and street sweepings
collected and disposed of.

NEW CONSTRUCTION

The incinerator plant in Jamaica will be ready for operation on or about April 15, 1921. This is a one hundred ton plant and this Bureau will be compelled to burn garbage and refuse for practically the entire Fourth Ward.

BUREAU OF PUBLIC BUILDINGS AND OFFICES
INTERIOR BATH, EIGHTH STREET, LONG ISLAND CITY

PATRONAGE DURING THE YEAR

Month	Males	Females	Total
January.....	2,227	650	2,877
February.....	2,420	609	3,029
March.....	3,951	1,087	5,038
April.....	3,964	1,306	5,270
May.....	5,188	1,839	7,027
June.....	8,995	3,260	12,255
July.....	9,474	3,296	12,770
August.....	7,094	2,556	9,650
September.....	7,613	2,333	9,946
October.....	5,282	1,698	6,980
November.....	3,437	1,152	4,589
December.....	3,589	1,199	4,788
Total.....	63,234	20,985	84,219

BUREAU OF BUILDING CONSTRUCTION AND ALTERATION
TOPOGRAPHICAL BUREAU

BUREAU OF BUILDINGS

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING 1920

2,985	Frame Dwellings.....	\$15,907,963
536	Brick ".....	5,085,800
75	Frame Stores and Dwellings.....	348,550
69	Brick " " ".....	802,900
	Frame Tenements.....	
23	Brick ".....	1,750,000
	Frame Stores and Tenements.....	
	Brick " " " ".....	
44	Public Buildings (Amusements).....	496,815
2	" " (Municipal).....	255,000
112	Manufacturers' Workshops.....	8,038,100
10	Churches.....	254,000
2	Schools.....	600,000
	Hotels, Boarding Houses, etc.....	
	Hospitals.....	
78	Storage Warehouses, etc.....	821,325
32	Office Buildings.....	564,950
2,570	Garages.....	2,966,748
19	Stables.....	30,650
357	Other Frame Structures.....	169,747
6,914	Total.....	\$38,092,548

PLANS AND APPLICATIONS FILED AND ACTED UPON FOR ALTERATIONS

2,144	Frame Dwellings.....	\$1,125,028
52	Brick ".....	56,480
280	Frame Stores and Dwellings.....	306,960
115	Brick " " ".....	117,975
21	Frame Tenements.....	13,210
5	Brick ".....	3,500
7	Frame Stores and Tenements.....	22,325
14	Brick " " ".....	36,200
48	Public Buildings (Amusements).....	113,635
1	" Building (Municipal).....	2,000
223	Manufacturers' Workshops.....	1,200,785
11	Churches.....	37,715
10	Schools.....	455,400
15	Hotels, Boarding Houses, etc.....	33,380
1	Hospital.....	15,000
47	Storage Warehouses, etc.....	167,705
41	Office Buildings.....	289,442
100	Garages.....	392,827
47	Stables.....	132,930
146	Other Frame Structures.....	45,447
3,328	Total.....	\$4,567,924

RECORD OF VIOLATIONS

	Pending	Received Since	Total	Removed	Pending
Defective construction.....	1,269	334	1,603	189	1,414
No permit.....	969	409	1,378	417	961
Unsafe.....	251	135	386	94	292
Total.....	2,489	878	3,367	700	2,667

RECORD OF INSPECTIONS

Construction.....	80,025
Plumbing.....	42,495
Plastering.....	9,672
Elevator.....	1,127
Total.....	133,319

TOPOGRAPHICAL BUREAU

Due to recent court decisions regarding street closings and involving dedication of streets, the careful scrutiny and exacting limitations imposed by the Board of Estimate and Apportionment have made it necessary to spend more time in study of these matters than heretofore and, coupled with the fact that the new law relating to filing of property maps and the zoning regulations are now being invoked to an appreciable extent by taxpayers, we have found it difficult to maintain, with our present force, the average output of the years immediately preceding. Three final maps temporarily failed of approval, owing to the fact that the court has not rendered a decision regarding street closings affected by these maps.

FINAL AND ALTERATION MAPS

During the year the Board of Estimate and Apportionment approved two Final Sections, seven Special Final Maps and thirty-three Alteration Maps. Within the same period we completed and forwarded to the Board for its approval four Final Sections, seven Special Final Maps and forty-five Alteration Maps. Of the maps approved by the Board both Final Sections, one Special Final Map and twenty Alteration Maps were in its hands awaiting approval at the close of 1919, and the beginning of 1921 finds in the hands of the Board, awaiting its approval, six Final Sections, four Special Final Maps and thirty-eight Alteration Maps. We have in course of preparation fifty Final Sections, one Special Final Map being computed and seven being drafted, together with eighteen Alteration Maps, one being computed and seventeen being drafted.

STREET OPENING PROCEEDINGS AND STREET OPENING MAPS

The Local Boards authorized acquisition of title to seventeen streets, and the Board of Estimate and Apportionment instituted proceedings to acquire title to thirty-one streets and one territorial area, of which fifteen were new proceedings and sixteen amended proceedings.

Street Opening Maps in thirty-eight proceedings, totaling 96,664 feet, were approved by the Board of Estimate and Apportionment. We completed and forwarded to the Board for its approval seventeen Rule Maps, totaling 79,809 feet, and thirteen Draft Damage Maps, totaling 41,109 feet.

To the Corporation Counsel we forwarded fifteen Final Damage Maps, totaling 16,729 feet, and fourteen Benefit Maps, totaling 634 acres.

In course of preparation we have sixteen Rule Maps, totaling about 42,130 feet, seventeen Draft Damage Maps, totaling about 80,830 feet, forty-three Final Damage Maps, totaling about 172,164 feet, and forty-three Benefit Maps, the acreage of which has not yet been computed.

JAMAICA BAY BOULEVARD

This matter is in the hands of the Engineer in Charge of Engineering Construction.

CONDUIT BOULEVARD

A further effort was made during the year to secure passage by 1920 Legislature of the bill authorizing the laying out and improvement of this highway, but failed, and another attempt will be made to secure passage of this act during 1921.

FLUSHING RIVER

The maps to be used in connection with this proceeding are now under way. The preparation of these maps has not been hastened, owing to the fact that the Government has not yet appropriated the necessary money to improve the Channel.

NEWTOWN CREEK

Considerable effort was made to have adopted the map establishing the lines of Newtown Creek, but owing to numerous legal obstacles this was delayed. This map is still in the hands of the Board of Estimate and Apportionment and is expected to receive approval sometime during the early part of 1921. As soon as this adoption is completed a petition will be presented for the acquisition of title to the waterway. The Federal funds for this project are available, and both the Boroughs of Queens and Brooklyn are working to further its advancement.

ROCKAWAY BEACH EROSION

At present we are concentrating our efforts upon the passage of an amendment to the enabling act, which has been found necessary before work can be started, and immediately after its adoption a proceeding for this improvement will undoubtedly be initiated.

SUBSURFACE STANDARDIZATION

The work of the Substructures Division is becoming of such vital importance to the public utilities corporations that a strenuous effort should be made to have adopted maps showing standard plans for substructures which have been before the Board of Estimate and Apportionment for several years past.

HAMMELS BOULEVARD

The sewerage system as originally designed for the Rockaway Peninsula made provision for a large trunk sewer to run through Rockaway Beach Boulevard, but it became apparent that construction of this sewer would necessitate closing in part or all of this street for about one year and would seriously interfere with business. Objection to the proposed layout manifested itself among merchants and property owners along the boulevard, and as a consequence a new location was designed through Amstel Avenue and Beach Channel Drive. In view of the fact that there was no connection available between these two streets, it became necessary to design a new street, which was named Hammels Boulevard, to pass immediately to the south of Hammels Station and through the thickly populated section of this territory. The location of this street was designed and the proposed layout was completed by this office and adopted by the Board of Estimate and Apportionment on July 2, 1920, together with a proceeding for the acquisition of title to all streets above mentioned from Far Rockaway Boulevard to Beach 116th Street. The Rule Map to be used in connection with this proceeding was adopted by the Board of Estimate and Apportionment on December 3, 1920, and the proceeding itself has advanced to a stage where title can be vested as soon as the Sewer Bureau is ready to obtain final authorization.

OLD RECORDS

The appropriation of \$1,300.00, obtained in 1919, sufficed to copy only about 25 per cent of these necessary records. The major portion copied in 1919 were indexed during 1920, and in the budget for 1921 there appears a further appropriation for the continuance of this work.

REPAVEMENTS

The search for evidence showing which streets are eligible for repaving is being continued, and in connection therewith a bill was submitted to the 1920 Legislature providing for repaving of streets paved under the Burial Permit Act and giving credit to streets which were paved and assessed by localities, according to the percentage paid. Owing to a misunderstanding of its provisions this bill failed but will be re-submitted in 1921. During the year an opinion was received from Corporation Counsel, which placed six streets in Whitestone among the list of those eligible, and another opinion of the same date also placed Metropolitan Avenue in this class.

HOUSE NUMBERS

A house numbering map for the portion of the Rockaway Peninsula west of Norton Creek was adopted by the Board of Aldermen during the year, and a house numbering campaign was held at Rockaway Beach and proved a success. The house numbering map for the Corona section was practically completed. A key map to be used in connection with these maps was published and large numbers were distributed.

SPECIAL ACTIVITIES

The number of property maps submitted to this office, in accordance with Chapter 513 of the Laws of 1916, is continually increasing; the investigation and examination of these maps, together with necessary reports written in connection with them, have imposed a heavy burden on our working force, especially in view of the fact that occasionally these proposed property subdivisions are not made in accordance with the City Plan. This frequently delays adoption and necessitates a change in street system.

A matter of vital importance initiated during the year by this Bureau in conjunction with the Jamaica Board of Trade, was the opening and widening of Merrick Boulevard, which is undoubtedly the most congested street in Queens. It is expected that a proceeding to acquire title to this highway will be presented early in 1921.

During the year an inspection of the Lutheran Cemetery Branch of the Brooklyn Rapid Transit was made by the Borough officials, accompanied by members of the Public Service Commission and others. Two hearings relative to the manner in which tracks of the Brooklyn Rapid Transit shall cross intersecting streets were held by the Public Service Commission, at which testimony was given by the Engineer in charge of this Bureau. As a result of the activity displayed in connection with this matter the Public Service Commission issued an order directing the trolley company to alter track grades to agree with the final map, and provide crossings at intersecting streets.

THE PUBLIC

This Bureau always is ready and willing to co-operate with and apply wherever practicable, suggestions from taxpayers regarding a more economical and efficient method of street design. All maps and other information are at the disposal of persons seeking information relative to public improvements. Our constant endeavor has been to serve the public in a manner which would leave no doubt as to the reliability or accuracy of information given.

OFFICE ORGANIZATION

The employees of the Topographical Bureau on December 31, 1920, numbered 92 technical men, 36 per diem men, a clerical force of 7 and 3 messengers.

The total cost of maintenance for the year was \$242,540.91, divided as follows: \$213,874.21 chargeable to budget; \$28,666.70 chargeable to street and park opening fund.

The work of this office falls naturally into three divisions: Borough Map; Street Openings; Substructures and Franchises.

In addition to these three main divisions there are two small corps: one termed the Legal Status Corps, and the other the Topography and Miscellaneous Work Corps. Each of these corps is closely inter-related with all the other corps.

COMPARATIVE YEARLY STATEMENT

YEAR	TENTATIVE MAPS ADOPTED			FINAL SECTIONS ADOPTED			STREET OPENING MAPS									
							RULE		DRAFT DAMAGE		PROFILES		FINAL DAMAGE		FINAL BENEFIT	
	No.	Area in Acres	No.	Area in Acres	No.	Length in Ft.	No.	Length in Ft.	No.	Length in Ft.	No.	Length in Ft.	No.	Length in Ft.	No.	Area in Acres
1908	1	8,450	4	1,271	54	167,172	74	203,517	66	192,083	33	71,362	26	.....	.....	.....
1909	.....	.....	26	7,796	69	182,873	66	241,684	49	182,104	27	436,283	25	1,605	.....	.....
1910	.....	.....	19	6,599	40	130,476	45	158,633	36	127,573	52	186,755	57	4,078	.....	.....
1911	1	4,560	10	3,126	59	215,965	71	255,405	48	173,455	70	272,703	72	4,211	.....	.....
1912	4	13,730	13	3,950	69	299,309	82	305,359	52	187,197	70	218,882	52	2,984	.....	.....
1913	2	14,300	4	1,468	70	241,766	80	290,149	61	171,448	71	225,631	59	3,729	.....	.....
1914	2	5,500	8	2,391	42	183,627	51	222,577	35	103,202	61	171,448	52	6,900	.....	.....
1915	1	6,470	12	2,906	66	175,754	67	178,814	17	45,696	43	168,408	44	4,861	.....	.....
1916	.....	.....	8	2,014	85	269,546	87	258,204	8	58,530	123	358,880	85	.....	.....	.....
1917	.....	.....	9	2,809	63	186,698	83	199,930	1	35,000	106	263,211	105	4,370	.....	.....
1918	.....	.....	2	707	28	75,496	35	95,771	.....	.....	77	123,643	88	.....	.....	.....
1919	.....	.....	8	2,658	20	37,245	19	36,015	.....	.....	10	45,965	10	963	.....	.....
1920	.....	.....	2	565	17	79,809	14	41,109	.....	.....	15	16,729	14	635	.....	.....

COMPARATIVE YEARLY STATEMENT—Continued

YEAR	ALTERATION MAPS		MONUMENTS		FIELD WORK			Legal Status Reports	EXPENDITURES		
	SPECIAL MAPS		Set	Re-Set	Buildings Located	Feet of Measurements	Angles Turned		Feet of Street Levels	Budget and C'p'r'te St'ck Op'ning F'nd	
	Transmitted for Adoption	for Filing									
1908.....	17	9	1,123	334	7,048	8,646,595	12,714	277,949	.....	\$318,828.58	.....
1909.....	25	17	832	406	6,161	8,070,960	9,719	832,187	196	289,426.28	\$30,159.83
1910.....	25	18	570	634	3,215	7,722,357	9,962	1,753,372	312	222,956.91	46,154.06
1911.....	71	30	354	253	3,114	6,150,387	10,121	275,734	960	159,506.11	62,568.43
1912.....	68	41	586	131	4,399	7,113,234	14,736	985,004	1,037	176,836.84	49,350.56
1913.....	90	54	604	185	3,326	6,085,248	11,554	158,531	1,224	191,726.77	45,378.34
1914.....	75	51	783	139	1,446	6,762,076	12,404	446,040	1,244	197,845.19	32,099.56
1915.....	70	66	1,287	258	2,627	6,523,996	13,785	771,764	1,301	204,930.51	29,240.35
1916.....	73	63	1,145	383	2,269	6,194,622	10,736	100,450	1,392	176,887.43	36,339.14
1917.....	68	62	1,206	421	1,665	4,277,845	7,962	232,900	1,200	180,332.19	31,197.69
1918.....	48	43	902	133	305	3,874,943	5,373	70,264	717	189,872.31	15,526.03
1919.....	49	47	740	316	1,321	4,045,973	6,185	106,781	647	170,869.45	34,022.48
1920.....	46	40	437	239	1,342	4,258,993	5,880	213,711	707	213,874.21	28,666.70

DIVISION OF THE BOROUGH MAP

FINAL SECTIONS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

No. 139 Jamaica

No. 230 Far Rockaway

FINAL SECTIONS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

No. 1 Laurel Hill
 " 53 College Point
 " 57 Whitestone

No. 67 Murray Hill
 " 121 Dunton
 (Refd. back Dec. 3, 1920)
 No. 140 Baisley Pond

FINAL SECTIONS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL

No. 53 College Point
 " 57 Whitestone

No. 121 Dunton
 " 140 Baisley Pond

FINAL SECTIONS CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT AND FILED AT THIS OFFICE

No. 60 Whitestone
 " 69 "
 " 129 Jamaica
 " 135 "
 " 138 "

No. 139 Jamaica
 " 141 St. Albans
 " 218 Hammels
 " 230 Edgemere

FINAL SECTIONS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING

No. 138 Jamaica

No. 139 Jamaica

No. 141 St. Albans

FINAL SECTIONS IN COURSE OF PREPARATION

BEING SURVEYED

No. 42 Cedar Grove.....	70% completed	No. 93 Bayside.....	10% completed
" 47 Forest Hills.....	70% "	" 94 Blackstump.....	30% "
" 59 Whitestone.....	75% "	" 120 Jamaica.....	95% "
" 64 Blackstump.....	90% "	" 133 Hollis.....	25% "
" 65 ".....	90% "	" 143 ".....	95% "
" 70 Whitestone.....	60% "	" 144 ".....	96% "
" 74 ".....	70% "	" 145 ".....	70% "
" 76 Auburndale.....	80% "	" 148 Queens.....	42% "
" 77 Kissena Park.....	90% "	" 149 ".....	55% "
" 79 ".....	90% "	" 150 St. Albans.....	80% "
" 80 Kew Gardens.....	90% "	" 151 Queens.....	40% "
" 81 Jamaica.....	100% "	" 152 Springfield.....	20% "
" 82 Blackstump.....	100% "	" 153 ".....	15% "
" 83 ".....	90% "	" 154 Jamaica.....	20% "
" 84 Bayside.....	70% "	" 159 St. Albans.....	15% "
" 85 ".....	90% "	" 161 Queens.....	40% "

BEING COMPUTED

No. 49 College Point.....	80% completed	No. 142 St. Albans.....	(Not Started)
" 51 Powell's Cove....	98% "	" 143 Hollis.....	60% completed
" 52 " "	23% "	" 144 Bellaire.....	30% "
" 59 Whitestone.....	100% "	" 148 Queens.....	40% "
" 70 " "	5% "	" 161 "	20% "
" 74 "	39% "	" 219 Arverne.....	90% "
" 78 Kissena Park.....	(Not Started)	" 220 "	20% "
" 80 Blackstump.....	80% "	" 228 Edgemere.....	60% "
" 85 Bayside.....	90% "	" 229 "	85% "
" 86 "	75% "	" 232 Far Rockaway.....	100% "
" 120 Jamaica.....	60% "	" 233 " "	95% "
" 130 "	50% "	" 234 " "	100% "
" 134 Hollis.....	85% "		

BEING DRAFTED

No. 41 Queensboro Hill.	10% completed	No. 219 Hammels.....	80% completed
" 58 Whitestone Ldg.	90% "	" 232 Far Rockaway....	70% "
" 86 Bayside.....	100% "	" 233 " "	5% "
" 215 Hammels.....	(Not Started)	" 234 " "	40% "

SPECIAL FINAL MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

Establishing a PUBLIC PARK (Lafayette Park) bounded by Hillside Ave., Warwick Ave., and Warwick Crescent. Approved July 30.

Establishing lines and grades of 82ND AVE., from Kew Gardens Road to 130th St., and 130TH ST., from 82nd Ave. to Grand Central Parkway. Approved May 7.

Establishing lines and grades of AMSTEL AVE. and MERMAID ST., from Beach 72nd St. to Far Rockaway Blvd. Approved April 9.

Establishing lines and grades of 92ND ROAD and 83RD AVE., from Kew Gardens Road to 130th St. Approved Nov. 12.

Establishing grades of ROCKAWAY BLVD., from City Line to a point 2,300' westerly. Approved Sept. 24.

Establishing lines and grades of HAMMELS BLVD., from Beach Channel Drive to Amstel Blvd. Approved July 2.

Establishing grades of ROCKAWAY BLVD., from Conduit to Hook Creek. Approved August 6.

SPECIAL FINAL MAPS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

Establishing lines and grades of territory bounded by JAMAICA AVE., BOUNDARY LINE OF NEW YORK CITY, HEMPSTEAD AVE., etc. Dated May 14, 1914.

Establishing lines and grades of McNEIL BLVD., from Dabney Ave. to Brunswick Ave. Dated Sept. 5, 1916.

Establishing lines and grades of 209TH (HIGBIE) ST., at its intersection with 100th Ave. Dated July 16, 1920.

Establishing grades of WESTCHESTER AVE., from Merrick Road to Farmers Ave., and FOCH BLVD., from Farmers Ave. to City Line. Dated Nov. 15, 1920.

SPECIAL FINAL MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL

Establishing a PUBLIC PARK (Lafayette Park), bounded by Hillside Ave., Warwick Ave., and Warwick Crescent. Forwarded Feb. 20.

Establishing lines and grades of AMSTEL AVE. and MERMAID ST., from Beach 72nd St. to Far Rockaway Blvd. Forwarded March 4.

Establishing lines and grades of 82ND ROAD and 83RD AVE., from Kew Gardens Road to 130th St. Forwarded April 16.

Establishing lines and grades of 209TH (HIGBIE) ST., at its intersection with 100th Ave. Forwarded July 28.

Establishing lines and grades of HAMMELS BLVD., from Beach Channel Drive to Amstel Blvd. Forwarded March 25.

Establishing grades of ROCKAWAY BLVD., from Conduit to Hook Creek. Forwarded May 8.

Establishing grades of WESTCHESTER AVE., from Merrick Road to Farmers Ave., and FOCH BLVD., from Farmers Ave. to City Line. Forwarded Nov. 16.

SPECIAL FINAL MAPS CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT
AND FILED AT THIS OFFICE

Establishing lines and grades of JAMAICA BAY BLVD. across Jamaica Bay. Filed February 18.

Establishing bulkhead lines along Atlantic Ocean Front. Filed February 13.

Establishing lines and grades of BEACH 62ND ST., from Thursby St. to Ocean Promenade. Filed February 13.

Establishing lines and grades of CAFFREY AVE., from New Haven Ave. to Beach 9th St. Filed February 13.

Establishing a PUBLIC PARK (Lafayette Park), bounded by Hillside Ave., Wariwick Ave. and Warwick Crescent. Filed December 31.

Establishing lines and grades of 82ND AVE., from Kew Gardens Road to 130th St., and 130TH ST., from 82nd Ave. to Grand Central Parkway. Filed November 4.

Establishing lines and grades of AMSTEL AVE. and MERMAID ST., from Beach 72nd St. to Far Rockaway Blvd. Filed Nov. 4.

Establishing lines and grades of HAMMELS BLVD., from Beach Channel Drive to Amstel Blvd. Filed Nov. 4.

Establishing grades of ROCKAWAY BLVD., from Conduit to Hook Creek. Filed December 31.

SPECIAL FINAL MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND
APPORTIONMENT FOR CERTIFICATION AND FILING

Establishing a PUBLIC PARK (Lafayette Park), bounded by Hillside Ave., Warwick Ave., and Warwick Crescent. Forwarded September 23.

Establishing lines and grades of 82ND AVE., from Kew Gardens Road to 130th St., and 130TH ST., from 82nd Ave. to Grand Central Parkway. Forwarded July 15.

Establishing lines and grades of AMSTEL AVE. and MERMAID ST., from Beach 72nd St. to Far Rockaway Blvd. Forwarded July 12.

Establishing grades of ROCKAWAY BLVD., from City Line to a point 2,300' westerly. Forwarded November 9.

Establishing lines and grades of HAMMELS BLVD., from Beach Channel Drive to Amstel Blvd. Forwarded August 13.

Establishing grades of ROCKAWAY BLVD., from Conduit to Hook Creek. Forwarded September 23.

SPECIAL FINAL MAPS WITH BOARD OF ESTIMATE AND APPORTIONMENT FOR CER-
TIFICATION AND FILING

Establishing grades of ROCKAWAY BLVD., from City Line to a point 2,300' westerly. Forwarded November 9.

SPECIAL FINAL MAPS NOT COMPLETED

BEING COMPUTED

Establishing lines and grades of 82ND Ave., from 134th to 135th Sts.

BEING DRAFTED

Establishing lines and grades of territory bounding REFUSE DESTRUCTOR at BEACH 63RD ST. and BARBADOES CREEK.

Establishing lines and grades of 19TH ST., from Ave. C to Ave. D.

Establishing lines and grades of section east of SPRINGFIELD BLVD., from City Line to Montefiore Cemetery.

Establishing lines and grades of MERRICK BLVD., from South Road to Hook Creek Blvd.

Establishing lines of HAMMELS BLVD., from Beach 84th to Beach 85th Sts.

Establishing lines and grades of 71ST AVE., from Kissena Road to 168th St.

Establishing lines and grades of 162ND ST. (CRYDER'S LANE), from Boulevard to northerly line of Final Section No. 60.

GRADE CHARTS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING
APPROVAL

No. 11 Woodside

GRADE CHARTS CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT AND
FILED AT THIS OFFICE

No. 62 Flushing

GRADE CHARTS IN COURSE OF PREPARATION

No. 25 Corona.....	10% completed	No. 111 Woodhaven.....	30% completed
" 110 Brooklyn Manor 25%	"	" 118 Richmond Hill....	25% "

ALTERATION MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

Altering lines and grades of LIBERTY PARK, bounded by DILL PLACE, COOPER AVE., MT. CARMEL CEMETERY, UNION FIELD CEMETERY, etc. Approved March 26.

Altering lines and grades of FAIRMOUNT STREET, from existing Fairmount St. to Cypress Ave. Approved February 27.

Showing elimination of MIDDLEBURG AVE., from Jackson Ave. to 575 feet, easterly. Approved March 26.

Altering lines and grades of BORDEN AVE., from Betts Ave. to Grand St. Approved April 30.

Showing a sewer easement in HOBSON AVE., from Creek St. to Newtown Creek. Approved February 13.

Altering grades of CYPRESS HILLS ROAD, from Fresh Pond Road to Central Ave. Approved January 30.

Altering lines of BROADWAY, from Newtown Road to Queens Blvd. Approved February 27.

Altering grades of GROVE and LINDEN STS., from Prospect St. to Fresh Pond Road. Adopted February 27.

Altering lines and grades of 86TH AVE., from Forest Parkway to 85th St. Approved January 30.

Altering lines and grades of LAURENSEN PLACE, from Queens Blvd. to Monroe St. Approved July 9.

Altering lines of SANDOL and PANSY STS., from Cooper to Myrtle Aves., and GLASSER ST., from Sandol to Slocum Sts. Approved March 26.

Showing a sewer easement in OWENS ST., from Maspeth Ave. to Grand St. Approved February 6.

Altering grades of CROCHERON AVE., DEPOT LANE, BROADWAY, etc., in Flushing. Approved March 19.

Altering lines of MARY ST., at its junction with Eliot Ave. Approved March 19.
 Altering grades of 159TH ST. at Depot Lane. Approved March 19.
 Altering territory in the vicinity of old 2nd and old 3rd Sts., in the 4th Ward. Approved July 9.
 Altering grades of LYON AVE., from Astoria to Ditmars Aves. Approved July 9.
 Altering lines of HINMAN ST. and GRIFFITH AVE., from Wayne to Steuben Sts. Approved April 16.
 Showing a sewer easement in 13TH ST., from Fillmore Ave. to Trains Meadow Road. Approved February 13.
 Altering lines and grades of ELKHORN ST., from Fairfield to Cozine Aves. Approved February 6.
 Altering lines and grades of 90TH AVE., from Elderts Lane to 76th St., and COURT ST., from 88th Road to 90th Ave. Approved January 23.
 Altering lines of VOORHEES PLACE, from Roosevelt Ave. to Hunt St. Approved January 23.
 Altering lines of 43D ST., from Astoria to Beauregard Aves. Approved July 9.
 Showing a sewer easement in RODMAN ST., from 118th St. to Flushing River. Approved June 25.
 Altering lines of 88TH ROAD, from 91st to Woodhaven Blvd. Approved July 30.
 Altering grades of QUEENS ST., from Jackson Ave. to L. I. R. R. Approved Nov. 9.
 Altering grades of HAVEMEYER ST., from 51st St. to Tiemann Ave., and TIEMANN AVE., from Gunther St. to Kingsland Ave. Approved July 9.
 Showing property to be acquired for Ferry Purposes at Astoria. Approved August 6.
 Altering grades of COURT ST., from Thomson Ave. to L. I. R. R. Approved November 19.
 Altering lines of ARCHER ST., from Branford St. to New York Ave. Approved January 14, 1921.
 Altering grades of JACKSON AVE., from Holland Ave. to Willets Point Road, and HARPER AVE., from the Bulkhead Line to Jackson Ave. Approved July 30.

ALTERATION MAPS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

Altering grades of RENE PLACE, from Grandview to Metropolitan Aves. Dated February 11, 1913.
 Establishing lines and grades of OLD ELMHURST AVE., from Roosevelt to Junction Aves. Dated November 8, 1915.
 Four parcels of land at CLARK ST., to be acquired for sewer easement. Dated March 10, 1914.
 Altering grades of FRONT ST., from Borden to Newtown Aves. Dated July 2, 1914.
 Altering grades of 101ST ST., from 99th to 101st Aves. Dated May 1, 1915.
 Altering lines of WOODILL PLACE, from Grand to Falkner Sts.
 Altering street system within territory bounded by BEACH 25TH ST., FERNSIDE PLACE, CAMP PLACE and SEAGIRT AVE. Dated October 11, 1915.
 Altering lines of COLLINS AVE. across the L. I. R. R. Dated Sept. 30, 1915.
 Altering lines and grades of JUNCTION AVE., from Burnside to Corona Aves. Dated July 31, 1917.
 Altering lines and grades of AZALEA ST., from Metropolitan Ave. to Winifred St. Dated July 11, 1920.
 Altering lines and grades of GROUT AVE., from Schroeder Place to Hyatt Ave. Dated April 16, 1919.
 Altering lines and grades of BUSKIRK PLACE, from Seabury St. to Queens Blvd. Dated June 5, 1920.
 Showing elimination of OTIS AVE., from Orontes St. to Rodman Ave. Dated July 30, 1920.
 Closing HOMANS AVE., from Van Horn to Wool Sts. Dated May 13, 1919. Referred back to Borough President, November 26, 1920.

Altering lines and grades of KINGSLAND AVE., from Broadway to Junction Ave.
 Dated June 25, 1920.
 Altering lines and grades of UNION TURNPIKE, from Queens Blvd. to Metropolitan
 Ave. Dated October 6, 1920.
 Showing a sewer easement in YELLOWSTONE AVE., from Queens Blvd. to 51st St.
 Dated January 29, 1920.
 Altering grades of 80TH ST., from 85th Road to 85th Drive. Dated June 10, 1920.
 Closing ROSTRUM AVE., from Laurel Hill Ave. to westerly side of Gosman Ave. Dated
 April 1, 1920.
 Altering lines of NEWTOWN CREEK and MASPETH CREEK. Dated March 30,
 1920.
 Altering grades of PARK LANE SOUTH, at Montauk Division of the L. I. R. R. Dated
 March 15, 1920.
 Altering lines and grades of SKILLMAN AVE., from 3rd to 4th Sts. Dated April 30,
 1920.
 Altering lines of 155TH ST. and 156TH ST., from 113th to 114th Aves. Dated April
 13, 1920. Referred back to Borough President, December 17, 1920.
 Altering lines and grades of HOWARD BEACH ESTATES. Dated June 4, 1920.
 Establishing a PUBLIC PARK on north side of CYPRESS AVE., from Center to George
 Sts. Dated June 17, 1920.
 Showing a grade change at intersection of JAY AVE. and BURROUGH AVE. Dated
 June 14, 1920.
 Altering lines and grades of VARIAN PLACE, from Sprague to Ford Sts. Dated June
 25, 1920.
 Altering grades of 86TH ST., from 85th Road to 86th Ave. Dated August 3, 1920.
 Altering lines and grades of WILLCOX ST., from Hayes to Jackson Aves. Dated July
 28, 1920.
 Altering lines of ARCHER ST., from Branford St. to New York Ave. Dated July 29,
 1920.
 Establishing a pedestrian crossing over the L. I. R. R., near the Auburndale Station.
 Dated August 11, 1920.
 Altering grades of EDSON ST., from TIEMANN Ave. to 51st St. Dated Sept. 10, 1920.
 Altering grades of 97TH ST., from 89th to 91st Aves. Dated October 25, 1920.
 Altering lines of DARVALL ST., from Alburts Ave. to 46th St. Dated December 8, 1920.
 Altering lines of HOWARD ST., from Review Ave. to Nassau River. Dated Novem-
 ber 18, 1920.
 Showing property to be acquired for a Screening and Sedimentation Plant at the westerly
 end of NEWPORT AVE. Dated November 30, 1920.
 Altering lines of CRANE ST. south of Jackson Ave. Dated Dec. 7, 1920.
 Altering grades of GALE ST., from Van Dam to Young Sts. Dated December 6, 1920.

ALTERATION MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL

Altering lines of WOODILL PLACE, from Falkner to Grand Sts. Forwarded Feb-
 ruary 17.
 Altering lines and grades of AZALEA ST., from Metropolitan Ave. to Winifred St. For-
 forwarded July 28.
 Altering lines and grades of GROUT AVE., from Schroeder Place to Hyatt Ave. For-
 forwarded September 27.
 Altering lines and grades of BUSKIRK PLACE, from Seabury St. to Queens Blvd. For-
 forwarded June 29.
 Altering lines of OTIS AVE., from Orontes to Rodman Sts. Forwarded August 17.
 Altering lines and grades of KINGSLAND AVE., from Broadway to Junction Ave.
 Forwarded July 16.
 Altering lines and grades of UNION TURNPIKE, from Queens Blvd. to Metropolitan
 Ave. Forwarded Nov. 24.

Altering street system in vicinity of OLD SECOND and THIRD STS., 4th Ward. Forwarded February 20.
 Altering grades of LYON AVE., from Astoria to Ditmars Aves. Forwarded January 29.
 Showing a Sewer Easement in YELLOWSTONE AVE., from Queens Blvd. to 51st St. Forwarded February 20.
 Altering lines of 43RD ST., from Astoria to Beauregard Aves. Forwarded February 18.
 Altering grades of 80TH ST., from 85th Road to 85th Drive. Forwarded July 12.
 Showing a Sewer Easement in RODMAN ST., from 118th St. to Flushing River. Forwarded March 10.
 Closing ROSTRUM AVE., from Laurel Hill Ave. to the westerly side of Gosman Ave. Forwarded April 16.
 Altering lines of NEWTOWN CREEK and MASPETH CREEK. Forwarded April 30.
 Altering lines of 88TH ROAD, from 91st St. to Woodhaven Blvd. Forwarded May 3.
 Altering grade of PARK LANE SOUTH at the Montauk Division of the L. I. R. R. Forwarded March 23.
 Altering grades of QUEENS ST., from Jackson Ave. to L. I. R. R. Forwarded July 23.
 Altering lines and grades of SKILLMAN AVE., from 3rd to 4th Sts. Forwarded May 13.
 Altering lines of 155TH and 156TH STS., from 113th to 114th Ave. Forwarded April 19.
 Altering grades of HAVEMEYER ST., from 51st St. to Tiemann Ave., and TIEMANN AVE., from Gunther St. to Kingsland Ave. Forwarded April 30.
 Altering lines of the Howard Beach Estates. Forwarded September 23.
 Establishing a PUBLIC PARK on the north side of CYPRESS AVE., from Center to George Sts. Forwarded July 30.
 Showing a grade change at intersection of JAY AVE. and BURROUGH AVE. Forwarded July 24.
 Showing property to be acquired for Ferry Purposes at MILLS ST. and East River, Astoria. Forwarded May 14.
 Altering grades of COURT ST., from Thomson Ave. to the L. I. R. R. Forwarded July 23.
 Altering lines and grades of VARIAN PLACE, from Sprague to Ford Sts. Forwarded July 16.
 Altering grades of 86TH ST., from 85th Road to 86th Ave. Forwarded August 12.
 Altering grades of WILCOX ST., from Hayes to Jackson Aves. Forwarded August 12.
 Altering lines of ARCHER ST., from Branford St. to New York Ave. Forwarded August 6.
 Altering grades of JACKSON AVE., from Holland Ave. to Willets Point Road, and HARPER AVE., from the Bulkhead Line to Jackson Ave. Forwarded July 7.
 Establishing a Pedestrian Crossing over the L. I. R. R. near the Auburndale Station. Forwarded September 9.
 Altering grades of EDSON ST., from Tiemann Ave. to 51st St. Forwarded September 28.
 Altering grades of 97TH AVE., from 89th to 91st Aves. Forwarded October 25.
 Altering lines of DARVALL ST., from Alburdis Ave. to 46th St. Forwarded December 13.
 Altering lines of HOWARD ST., from Review Ave. to Nassau River. Forwarded November 24.
 Establishing a Screening and Sedimentation Plant at the westerly end of NEWPORT AVE. Forwarded December 7.
 Altering lines of CRANE ST. south of Jackson Ave. Forwarded December 13.
 Altering grades of GALE ST., from Van Dam to Young Sts. Forwarded December 13.

ALTERATION MAPS CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT
 AND FILED AT THIS OFFICE

Altering lines and grades of GODFREY AVE., from Clinton to Maspeth Aves. Filed April 19.
 Altering street system within the territory bounded by DUANE ST., PATTERSON AVE., GRAND AVE., JACKSON AVE., etc. Filed January 19.

Altering lines and grades of KINGSLAND AVE., from Junction to Peartree Aves.
 Filed February 13.
 Altering lines of RIDGEWOOD and FULTON AVES., from Cedar St. to Maure Ave.
 Filed January 19.
 Altering lines and Grades of MILLWOOD AVE., DILL PLACE and WALTER ST.
 Filed February 13.
 Altering lines and grades of LIBERTY PARK, bounded by Dill Place, Cooper Ave., Mt.
 Carmel Cemetery, etc. Filed September 7.
 Altering lines and grades of ATLANTIC AVE., from 80th to 115th St. Filed Febru-
 ary 24.
 Altering lines and grades of Final Section 116: territory bounded by SUTTER AVE.,
 WOODHAVEN AVE., PITKIN AVE., etc. Filed February 13.
 Altering grades of 86TH AVE., from 108th to 113th St. Filed February 24.
 Altering lines of BEATRICE PLACE, from Maiden Lane to Cunningham Lane. Filed
 February 13.
 Altering grades of TRIMBLE AVE., from Queens Blvd. to Woodside Ave. Filed Feb-
 ruary 13.
 Altering grades of ROOSEVELT AVE., from 51st St. to Riverside Ave. Filed Feb-
 ruary 13.
 Altering lines of AGNES PLACE, from Myrtle Ave. to Varian St. Filed January 19.
 Showing elimination of MIDDLEBURG AVE., from Jackson ave to 575' easterly. Filed
 September 7.
 Altering street systems of FINAL SECTIONS 134 and 135. Filed April 19.
 Altering grades of SECOND ST., from Stryker Ave. to the L. I. R. R. Filed February 24
 Altering grades of MASPETH AVE., from Rust St. to Clermont Ave. Filed April 19.
 Altering lines and grades of TRAUTWINE ST., from Fisk Ave. to Ramsey St. Filed
 April 19.
 Establishing a PUBLIC PARK at intersection of Myrtle and Cypress Aves. Filed
 February 24.
 Altering lines and grades of BORDEN AVE., from Betts Ave. to Grand St. Filed No-
 vember 4.
 Altering grades of CORONA: territory bounded by Corona Ave., Rodman St., Sothern
 Ave., etc. Filed April 19.
 Altering lines of SENECA AVE., from Summerfield St. to the L. I. R. R. Filed Feb-
 ruary 13.
 Altering lines of DICKSON ST., from Skillman to Middleburg Ave. Filed April 19.
 Altering lines of 188TH ST., from Hillside to Jamaica Ave. Filed March 31.
 Establishing a PUBLIC PARK, bounded by Borden Ave., Laurel Hill Blvd., and Laurel
 Place. Filed February 13.
 Altering grades of 46TH ST., from Sackett St. to Roosevelt Ave. Filed April 19.
 Establishing a Pedestrian Crossing at CARD PLACE across the L. I. R. R. Filed
 February 13.
 Altering grades of CYPRESS HILLS ROAD, from Fresh Pond Road to Central Ave.
 Filed May 28.
 Altering grades of SHERMAN PLACE, from Harris Ave. to 14th St. Filed April 19.
 Establishing a Pedestrian Crossing at ROACH PLACE, across the L. I. R. R. Filed
 February 13.
 Altering lines of BRIDGE PLAZA NORTH and BRIDGE PLAZA SOUTH, from Cres-
 cent St. to Jackson Ave. Filed April 19.
 Altering lines of BROADWAY, from Newtown Road to Queens Blvd. Filed May 28.
 Altering grades of GROVE and LINDEN STS., from Prospect St. to Fresh Pond Road.
 Filed May 28.
 Altering lines and grades of 86TH AVE., from Forest Parkway to 85th St. Filed May 28.
 Altering lines and grades of LAURENSEN PLACE, from Queens Blvd. to Monroe St.
 Filed Nov. 4.
 Altering lines of SANDOL ST. and PANSY ST., from Cooper to Myrtle Aves., and
 GLASSER ST., from Sandol to Slocum Sts. Filed September 7.

Altering lines and grades of WOODHAVEN AVE., from Forest Park to Liberty Ave.
Filed February 13.

Showing a grade change at intersection of JACKSON AVE. and 25TH ST. Filed April 19.

Altering grades of CROCHERON AVE., DEPOT LANE, BROADWAY, etc., in Flushing. Filed September 7.

Altering lines of MARY ST., at its junction with Eliot Ave. Filed June 7.

Altering grades of 159TH ST. at Depot Lane. Filed Sept. 7.

Showing a change of street system in vicinity of old Second and old Third Sts., Fourth Ward. Filed November 4.

Altering Grades of LYON AVE., from Astoria to Ditmars Aves. Filed November 4.

Altering lines of HINMAN ST. and GRIFFITH AVE., from Wayne to Steuben St.
Filed July 8.

Showing a sewer easement in 13TH ST., from Fillmore Ave. to Trains Meadow Road.
Filed April 19.

Altering lines and grades of 90TH AVE., from Elderts Lane to 76th St., and COURT ST., from 88th Road to 90th Ave. Filed March 31.

Altering lines of VOORHEES PLACE, from Roosevelt Ave. to Hunt St. Filed May 28.

Altering lines of 43RD ST., from Astoria to Beauregard Aves. Filed November 4.

Altering lines of 88TH ROAD, from 91st St. to Woodhaven Blvd. Filed December 31.

Altering grades of HAVEMEYER ST., from 51st St. to Tiemann Ave., and TIEMANN AVE., from Gunther St. to Kingsland Ave. Filed November 4.

Altering grades of JACKSON AVE., from Holland Ave. to Willets Point Road, and HARPER AVE., from the Bulkhead Line to Jackson Ave. Filed December 31.

ALTERATION MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING

Establishing lines and grades of GODFREY AVE., from Clinton to Maspeth Aves. Forwarded February 20.

Altering lines and grades of LIBERTY PARK, bounded by DILL PLACE, COOPER AVE., MT. CARMEL CEMETERY, etc. Forwarded May 25.

Showing elimination of Middleburg Ave., from Jackson Ave. to 575' easterly. Forwarded May 25.

Altering street systems of Final Sections 134 and 135. Forwarded May 3.

Altering grades of MASPETH AVE., from Rust St. to Clermont Ave. Forwarded March 9.

Altering lines and grades of TRAUTWINE ST., from Fisk Ave. to Ramsey St. Forwarded February 20.

Altering lines and grades of BORDEN AVE., from Betts Ave. to Grand St. Forwarded July 23.

Altering grades of CORONA: territory bounded by CORONA AVE., RODMAN ST., SOTHERN AVE., etc. Forwarded March 6.

Altering lines of DICKSON ST., from Skillman to Middleburg Aves. Forwarded February 20.

Altering lines of 188TH ST., from Hillside to Jamaica Aves. Forwarded March 9.

Altering grades of 46TH ST., from Sackett St. to Roosevelt Ave. Forwarded February 20.

Altering grades of CYPRESS HILLS ROAD, from Fresh Pond Road to Central Ave. Forwarded April 21.

Altering grades of SHERMAN PLACE, from Harris Ave. to 14th St. Forwarded March 3.

Altering lines of BRIDGE PLAZA NORTH and BRIDGE PLAZA SOUTH, from Crescent St. to Jackson Ave. Forwarded March 9.

Altering lines of BROADWAY, from Newtown Road to Queens Blvd. Forwarded April 21.

Altering grades of GROVE and LINDEN STS., from Prospect St. to Fresh Pond Road. Forwarded April 21.

Altering lines and grades of 86TH AVE., from Forest Parkway to 85th St. Forwarded April 21.

Altering lines and grades of LAURENSEN PLACE, from Queens Blvd. to Monroe St.
 Forwarded September 8.
 Altering lines of SANDOL and PANSY STS., from Cooper to Myrtle Aves., and
 GLASSER ST., from Sandol to Slocum Sts. Forwarded May 27.
 Altering grades at the intersection of JACKSON AVE. and 25TH ST. Forwarded
 February 20.
 Altering grades of CROCHERON AVE., DEPOT LANE, BROADWAY, etc., at Flush-
 ing. Forwarded May 27.
 Altering lines of MARY ST., at its junction with Eliot Ave. Forwarded May 27.
 Altering grades of 159TH ST. at Depot Lane. Forwarded May 25.
 Altering street system within the territory bounded by 82ND ST., ROCKAWAY BLVD.,
 84TH ST. and 97TH AVE. Forwarded September 7.
 Altering grades of LYON AVE., from Astoria to Ditmars Aves. Forwarded September 8.
 Altering lines of HINMAN ST. and GRIFFITH AVE., from Wayne to Steuben Sts.
 Forwarded June 12.
 Showing a sewer easement in 13TH ST., from Fillmore Ave. to Trains Meadow Road.
 Forwarded March 11.
 Altering lines and grades of 90TH AVE., from Elderts Lane to 76th St., and COURT
 ST., from 88th Road to Monmouth Ave. Forwarded March 9.
 Altering lines of VOORHEES PLACE, from Roosevelt Ave. to Hunt St. Forwarded
 April 21.
 Altering lines of 43RD ST., from Astoria to Beauregard Aves. Forwarded August 12.
 Altering lines of 88TH ROAD, from 91st St. to Woodhaven Blvd. Forwarded Sep-
 tember 23.
 Altering grades of HAVEMEYER ST., from 51st St. to Tiemann Ave., and TIEMANN
 AVE., from Gunther St. to Kingsland Ave. Forwarded September 4.
 Showing property to be acquired for Ferry Purposes at foot of MILLS ST., Astoria.
 Altering grades of JACKSON AVE., from Holland Ave. to Willets Point Road, and
 HARPER AVE., from Bulkhead Line to Jackson Ave. Forwarded September 23.

ALTERATION MAPS NOT COMPLETED

BEING COMPUTED

Old Flushing Ave.: Grand St. to 360' north.

BEING DRAFTED

JAGGER AVE.: Underhill to Sanford Aves.
 OLD BOWERY BAY ROAD: Second Ave. to Hazen St.
 12TH ST.
 BERRIAN AVE.: Riverside to Harper Aves.
 CYPRESS HILLS ROAD.
 QUEENS AVE.:
 LARCH ST.: Parsons Ave. to Fresh Meadow Road.
 FINAL SECTION NO. 134: 182nd Place to 183rd St.
 LEININGER PLACE: Lawrence St. to Debevoise Ave.
 ELIOT AVE.: Fresh Pond Road to Mt. Olivet Ave.
 COOPER AVE.: Fresh Pond Road to Suburban St.
 37TH ST.:
 38TH ST.:
 39TH ST.: Burnside to Patterson Aves.
 UNION HALL ST.: South St. to Brinkerhoff Ave.
 HINMAN ST.: Main to Steuben St.
 FRESH POND ROAD: Baltic St. to Metropolitan Ave.
 92ND ROAD: 168th St. to 500' easterly.
 LAKEVIEW BLVD. EAST: Foch Blvd. to 119th Road.
 120TH AVE.: Sutphin Blvd. to 153rd St.

DIVISION OF STREET OPENINGS

STREET OPENING PROCEEDINGS INSTITUTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT

	Instituted
19TH ST.: Sinclair Ave. to 120' south.....	Jan. 9
BEACH 25TH ST.: Cornaga Ave. to Far Rockaway Blvd.....	Jan. 9
94TH AVE.: 150th St. to Beaver Road;	
BLAKELY ST.: Beaver Road to Tuckerton St.....	Jan. 16
LOUONA AVE.: Corona to Roosevelt Aves.;	
HUNT ST.: Van Dine St. to 330' easterly;	
42nd St. to Louona Ave.....	Jan. 30
90TH AVE.: 75th St. to Elderts Lane.....	Feb. 20
*GRIFFITH AVE.: Metropolitan to Central Aves.;	
*STEBEN ST.: Proctor St. to Morton Ave.....	May 28
HARPER AVE.: Jackson Ave. to Bulkhead Line.....	May 21
BEACH 62ND ST.: Rockaway Blvd. to Thursby St.....	Jan. 30
*ARMAND PLACE: Walter St. to Charlotte Place;	
*CHARLOTTE PLACE: Dill Place to Alden Ave.,	
*DILL PLACE: Myrtle to Cooper Aves.;	
*FOREST AVE.: Walter to Summerfield Sts.;	
*MILLWOOD AVE.: Walter to Slocum Sts.;	
*SYLVAN ST.: Millwood to St. Felix Aves.;	
*WALTER ST.: Millwood to Cooper Aves.....	June 4
38TH AVE.: Cross Island Blvd. to Bell Ave.;	
WAINSCOTT AVE.: Beechhurst to Bell Aves.....	June 4
*BROADWAY: Newtown Road to Queens Blvd.....	June 11
BORDEN AVE.: Laurel Hill Blvd. to Grand St.....	July 2
AMSTEL AVE.: Far Rockaway Blvd. to Beach 71st St.;	
HAMMELS BLVD.: Amstel Ave. to Beach Channel Drive;	
BEACH CHANNEL DRIVE: Hammels Blvd. to B. 116th St.....	July 2
*43RD ST.: Ditmars to Burnside Aves.....	Oct. 29
*AGNES PLACE: Myrtle Ave. to L. I. R. R.;	
*BERTHA PLACE: Myrtle to Copeland Aves.;	
*CONSTANTIA PLACE: Myrtle to Copeland Aves.;	
*VARIAN ST.: Ford St. to Agnes Place;	
*WEISSE AVE.: Varian St. to L. I. R. R.....	Nov. 12

STREET OPENING PROCEEDINGS INSTITUTED BY THE LOCAL BOARDS AND PENDING APPROVAL OF THE BOARD OF ESTIMATE AND APPORTIONMENT

	Passed Local Board
AMAGANSETT ST.: 15th St. to 50' westerly.....	Sept. 29, 1913
ARCTIC ST.: Collins Ave. to Fresh Pond Road.....	Nov. 9, 1916
BERLIN AVE.: Borden Ave. to Newtown Creek.....	April 2, 1914
BLAKE AVE.: Hudson St. to Hatch Ave.....	May 27, 1915
BLAKE AVE.: Hudson St. to North Conduit Ave.....	Jan. 14, 1915
BRICE ROAD: Junction Ave. to 39th St.....	June 18, 1919
BUCHMAN ST.: Cornelia St. to Catalpa Ave.....	Nov. 21, 1913
BURNSIDE AVE.: Broadway to 1st St.....	Oct. 19, 1916
CARTER PLACE: Grand St. to Caldwell Ave.....	Nov. 15, 1912
CARD PLACE: Corona to Kingsland Ave.....	Dec. 1, 1910
CASE PLACE: Van Dine St. to Voorhees Place.....	Nov. 14, 1918
CHURCH ST.: Old South to Rockaway Road.....	Mar. 7, 1918

* Amended Proceeding.

	Passed Local Board
CLEVELAND AVE.: Greenpoint to Skillman Aves.	June 6, 1918
CLINTON AVE.: Montgomery to Hobdon Aves.	Mar. 2, 1916
COE PLACE: Van Ness St. to Voorhees Place	Dec. 1, 1910
COLUMBINE AVE.: Clifton to Berlin Aves.	June 25, 1914
COOPER AVE.: Cypress Ave. to Cypress Hills Road	Dec. 12, 1913
COOPER AVE.: Proctor St. to Constantia Place	Nov. 4, 1920
CORINTH AVE.: Grand St. to Caldwell Ave.	Nov. 15, 1912
CREEK ST.: Flushing Ave. to Penny Bridge	Sept. 29, 1915
CUMBERLAND ST.: Across the L. I. R. R.	April 5, 1912
DARVALL ST.: Alburtis Ave. to 46th St.	Dec. 9, 1919
DEY ST.: Crescent St. to Van Alst Ave.	Mar. 6, 1914
DIVISION ST.: Lewis to Caldwell Aves.	April 13, 1916
EDSALL AVE.: Otto St. to Central Ave.	Mar. 24, 1911
FALKNER ST.: Ramsey to Mazeau St.	May 20, 1920
FOREST ST.: Junction Ave. to 41st St.	June 25, 1914
FULTON ST.: Bedford to Napier Ave.	Dec. 10, 1915
GOULD AVE.: Madden to Locust Sts.	Mar. 16, 1914
GRAND AVE.: Main to Stevens St.	May 10, 1912
GRAND CENTRAL PARKWAY: Queens Blvd. to Nassau County Line	April 2, 1914
GROUT AVE.: Schroeder Place to Hyatt Ave.	Sept. 20, 1916
	May 15, 1919
HALLE AVE.: Laurel Hill Blvd. to Old Berlin Ave.	July 19, 1913
HANOVER AVE.: L. I. R. R. to Sewage Disposal Plant	Dec. 1, 1910
HAROLD AVE.: Queens Blvd. to Borden Ave.	May 27, 1915
HAYES AVE.: De Puyster St. to Jackson Ave.	July 20, 1916
HERBERT ST.: Rust St. to Clermont Ave.	April 30, 1914
HICKS AVE.: Thomson to Woodside Ave.	June 10, 1909
HOLLIS AVE.: Jamaica Ave. to Cross Island Blvd.	Oct. 26, 1916
HOME LAWN AVE.: Hillside to Highland Ave.	Jan. 25, 1917
INTERBOROUGH PARKWAY: Eastern Parkway to Forest Park	
JERMYN PLACE: Guinzburg Place to South St.	June 10, 1914
JONES AVE.: Clifton to Debevoise Aves.	June 25, 1914
JOY AVE.: Laurel Hill Blvd. to Debevoise Ave.	Dec. 12, 1915
JUNCTION AVE.: Burnside Ave. to Hoffman Blvd.	Feb. 25, 1909
KINGSLAND AVE.: Elbertson to Havemeyer Sts.	April 20, 1909
LAUREL HILL AVE.: Skillman to Borden Aves.	June 25, 1909
LAWSON ST.: Mitchell Ave. to 730' north of State St.	June 24, 1920
LEBANON ST.: Mulford Ave. to Willets Point Road (Awaiting adoption of Final Map)	Jan. 23, 1914
LIBERTY AVE.: Van Wyck Ave. to Carlisle St.	Oct. 26, 1916
LOCUST ST.: Barnet to Skillman Aves.	Dec. 9, 1915
MAIN ST.: Grand to Van Alst Aves.	May 10, 1912
MERCHANT ST.: Hoyt to Ditmars Aves.	Oct. 1, 1914
MIDDAGH ST.: Fairbanks Ave. to Old Grove St.	Sept. 23, 1915
MILLS ST.: Orchard St. to Bulkhead Line of East River	Feb. 26, 1912
MILLS ST.: East River to Fulton Ave.	April 12, 1911
MILLS ST.: Orchard St. to Fulton Ave.	Jan. 20, 1911
MITCHELL AVE.: 24th St. to 100' west of 25th St.	June 24, 1920
MONTGOMERY AVE.: Borden to Clinton Aves.	Dec. 12, 1913
NAPIER AVE.: Across the L. I. R. R.	June 16, 1911
NORTH CONDUIT AVE.: 79th St. to Blake Ave.	Sept. 20, 1917
NORTH CONDUIT AVE.: 75th St. to Sutter Ave.	June 17, 1920
NOTTAWA AVE.: Smith St. to New York Ave.	May 13, 1912
OCEAN PARKWAY:	
PROPOSED PARK: Beach 126th to Beach 141st Sts.	Dec. 9, 1915
ONDERDONK AVE.: Metropolitan to Catalpa Aves.	April 29, 1909

	Passed Local Board
PACKARD ST.: Skillman to Borden Aves.....	Sept. 24, 1908
PARK LANE: Bell Ave. to Little Neck Bay; Both sides of Crocheron Ave.....	May 3, 1911
PEARTREE AVE.: Jackson Ave. to Pell St.....	Sept. 4, 1919
PELL ST.: Jackson to Polk Aves.....	June 30, 1910
PERCY ST.: Sanford Ave. to Bayreuth St.....	Dec. 27, 1912
PHRANER AVE.: South St. to Yukon Ave.....	Sept. 28, 1916
PLATTWOOD AVE.: Sutter Ave. to Rockaway Blvd.....	Feb. 27, 1917
POLK AVE.: Woodside Ave. to 8th St.....	Sept. 20, 1905
POLK AVE.: Junction Ave. to Pell St.....	June 30, 1910
PUBLIC PARK: Myrtle Ave. Addition to Forest Park.....	Mar. 21, 1907
RAILROAD AVE.: Maurice Ave. to Grand St.....	Sept. 20, 1905
RAMSEY ST.: Queens Blvd. to Grand St.....	Nov. 15, 1912
RAMSEY ST.: Falkner to Fulton Sts.....	May 20, 1920
REVIEW AVE.: Howard St. to Greenpoint Ave.....	Dec. 8, 1920
ROACH PLACE: Kingsland Ave. to southerly side of L. I. R. R.....	June 5, 1919
RODMAN ST.: Queens Blvd. to Flushing River.....	Nov. 20, 1919
SAMUELSON ST.: Corinth Ave. to Division St.....	Nov. 15, 1912
SPRUCE ST.: Atlantic Ave. North to Atlantic Ave. South (Awaiting adop- tion of Special Final Map).....	Feb. 26, 1915
SOUTH RAILROAD AVE.: Broadway to Roach Place.....	Jan. 23, 1914
STEVENS ST.: Fulton Ave. to Main St.....	May 10, 1912
SUTTER AVE.: Hatch to Plattwood Ave.....	Feb. 27, 1917
SUWANEE AVE.: Rockaway Blvd. to Sutphin Road.....	Feb. 27, 1917
TENNESSEE ST.: Rockaway Blvd. to North Conduit Ave.....	May 28, 1914
TOWER PLACE: Freedom to Oxford Aves.....	June 30, 1914
TOWNSEND AVE.: Clifton to Debevoise Aves.....	Feb. 25, 1914
UPLAND PARK ADDITION: Petition to acquire 2.316 acres.....	April 26, 1913
VAN HORN ST.: Grand St. to Woodhaven Ave.....	Jan. 23, 1914
VARIAN PLACE: Sprague to Forbes Sts.....	Feb. 26, 1920
VOORHESS PLACE: Hunt St. to Roosevelt Ave.....	Aug. 16, 1917
WATERS AVE.: Laurel Hill Blvd. to Debevoise Ave.....	Dec. 12, 1913
WEISSE AVE.: Myrtle Ave. to Varian St.....	Mar. 1, 1917
WEISSE AVE.: Edsall to Satterlee Ave.....	May 2, 1913
WESTSIDE ST.: Corona Ave. to Rodman St.....	June 30, 1910
WOODHAVEN AVE.: Albert St. to Waterfront Development (Awaiting improvement of Jamaica Bay).....	Dec. 13, 1912
WOODHAVEN AVE.: Queens Blvd. to Jamaica Ave.....	Mar. 31, 1910
7TH AVE.: Woolsey to Riker Aves.....	April 15, 1916
8TH ST.: West of West Ave.....	Sept. 20, 1905
14TH ST.: Arnot to Mitchell Aves.....	May 23, 1913
17TH ST.: Mitchell Ave. to Ziegler St.....	Oct. 25, 1906
21ST ST.: Laurel Hill Blvd. to Roosevelt Ave.....	Jan. 13, 1916
28TH ST.: Jackson to Astoria Ave.....	July 16, 1914
40TH ST.: Roosevelt Ave. to Lake St.....	Sept. 25, 1919
41ST ST.: Berrian Ave. to Lake St.....	Mar. 24, 1911
42ND ST.: North Railroad Ave. to Flushing Bay.....	Jan. 20, 1911
43RD ST.: Polk to Roosevelt Aves.....	April 12, 1917
43RD ST.: Polk Ave. to Sackett St.....	April 12, 1917
43RD ST.: Jackson to Astoria Ave.....	Dec. 1, 1909
44TH ST.: Polk Ave. to Sackett St.....	April 12, 1917
44TH ST.: Polk to Roosevelt Aves.....	April 12, 1917
44TH ST.: Astoria Ave. to Sackett St.....	April 28, 1910
45TH ST.: Polk to Roosevelt Aves.....	April 12, 1917
45TH ST.: Polk Ave. to Sackett St.....	April 12, 1917
81ST ST: Rockaway Blvd. to 95th Ave.....	May 15, 1919

	Passed Local Board
82ND ST.: Rockaway Blvd. to 97th Ave.....	April 17, 1919
84TH ST.: Rockaway Road to Liberty Ave.....	Mar. 25, 1920
86TH ST.: 96th to 98th Sts.....	Jan. 27, 1916
BEACH 87TH ST.: Beach Channel Drive to Jamaica Bay.....	May 15, 1919
98TH AVE.: Farmers Ave. to 191st St.....	May 25, 1916
99TH AVE.: Farmers to Hollis Aves.....	Oct. 26, 1916
123RD ST.: Metropolitan Ave. to Ashland St.....	May 28, 1915
130TH ST.: Metropolitan Ave. to Wisner Place.....	May 28, 1915
162ND ST.: Cryders Lane to 7th Ave.....	Nov. 18, 1920
194TH ST.: Jamaica to 109th Aves. (Awaiting adoption of Map).....	Feb. 26, 1915
198TH ST.: Jamaica to Hollis Ave.....	Feb. 26, 1915
202ND ST.: Jamaica to Hollis Aves.....	Feb. 26, 1915

STREET OPENING MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

	Approved	Feet
TRAUTWINE ST.: Fisk to Ramsey St. (Rule and Damage).....	Feb. 13	455
STONE ST.: Greenpoint Ave. to Queens Blvd.....		260
Skillman to Borden Aves.....		750
DICKSON ST.: Skillman to Barnett Aves. (Rule and Damage).....	Feb. 13	1,430
*SENECA AVE.: Borough Line to Willoughby Ave.; Summerfield St. to St. Felix Ave. (Rule and Damage).....	Feb. 13	550
SCREENING AND SEDIMENTATION PLANT AREA (Rule and Damage).....	Feb. 13	630
LURTING ST.: 51st St. to Sanford Ave. (Rule and Damage).....	Mar. 5	6,200
HEMLOCK PLACE: Collins Ave. to Fresh Pond Road (Rule and Dam- age).....	Mar. 5	1,020
EVA PLACE: Flushing Ave. to Hemlock Place (Rule and Damage).....	Mar. 5	343
FAIRBANKS AVE.: Broadway to Baxter Ave. (Rule and Damage).....	April 16	1,400
BAXTER AVE.: Fairbanks Ave. to 25th St. (Rule and Damage).....	April 16	200
25TH ST., Baxter to Roosevelt Aves. (Rule and Damage).....	April 16	550
MIDDLEBURG AVE.: Barnett to Woodside Aves. (Rule and Dam- age).....	June 4	2,225
19TH AVE.: Broadway to Astoria Ave. (Rule and Damage).....	June 4	4,750
20TH AVE.: Jackson to Grand Aves. (Rule and Damage).....	June 4	2,700
13TH ST.: 12th St. to Polk Ave. (Rule and Damage).....	June 4	1,050
POLK AVE.: 13th St. to Fisk Ave. (Rule and Damage).....	June 4	80
GRIFFITH AVE.: Metropolitan to Central Aves (Rule and Damage).....	June 18	4,090
STEBEN ST.: Proctor St. to Morton Ave. (Rule and Damage).....	June 18	3,140
90TH AVE.: 75th St. to Elderts Lane (Rule and Damage).....	June 25	630
Flushing RIVER: Harper Ave. to Livingston St. (Rule).....	June 25	16,400
13TH ST.: Fillmore Ave. to Trains Meadow Road (Rule and Damage), (Sewer Easement).....	June 26	370
HARPER AVE.: Jackson Ave. to Bulkhead Line (Rule).....	June 25	870
FITTING ST.: Barnett to Nelson Aves. (Rule and Damage).....	July 30	5,500
FOREST AVE.: Walter to Summerfield St. (Rule and Damage).....	Oct. 11	500
WALTER ST.: Cooper to Willwood Aves. (Rule and Damage).....	Oct. 11	1,220
MILLWOOD AVE.: Walter to Pansy St. (Rule and Damage).....	Oct. 11	1,400
SYLVAN ST.: Millwood to St. Felix Aves. (Rule and Damage).....	Oct. 11	420
CHARLOTTE PLACE: Dill Place to Alden Ave. (Rule and Damage).....	Oct. 11	2,000
DILL PLACE: Myrtle to Cooper Aves (Rule and Damage).....	Oct. 11	1,390
ARMAND PLACE: Walter St. to Charlotte Place (Rule and Damage).....	Oct. 11	440
ROOSEVELT AVE.: Main St. to angle point 399' east of Willets Point Road (Rule).....	Oct. 11	1,200

	Approved	Feet
AMITY ST.: Main St. to angle point 399' east of Willets Point Road (Rule).....	Oct. 11	.....
AMSTEL AVE.: Far Rockaway Blvd. to B. 71st St.;		
HAMMELS BLVD.: Amstel Ave. to Beach Channel Drive;		
BEACH CHANNEL DRIVE: Hammels Blvd. to B. 116th St. (Rule).....	Dec. 3	21,100
FREEHOLD ST.: Ulster Ave. to Baisley Blvd. (Rule and Damage).....	Oct. 3	4,500
85TH DRIVE: 80th to 83rd Sts. (Rule and Damage).....	Oct. 10	336
HARPER AVE.: Jackson Ave. to Flushing Bay (Damage).....	Oct. 10	807
		<hr/> 96,664

STREET OPENING SURVEYS COMPLETED

NORTH CONDUIT AVE.: Baisley Blvd. to 132nd St.
 132ND ST.: North Conduit Ave. to Jamaica Disposal Plant.
 85TH DRIVE: 80th to 83rd Sts.
 19TH ST.: Sinclair Ave. to 120' South.
 ROCTON ST.: 150th St. to Beaver Road.
 BLAKELY ST.: Beaver Road to Tuckerton St.
 BEACH 25TH ST.: Cornaga Ave. to Rockaway Blvd.
 BEACH 62ND ST.: Rockaway Beach Blvd. to Thursby St.
 HUNT ST.: Van Done St. to Louona Ave.
 LOUONA AVE.: Corona to Roosevelt Aves.
 PUBLIC PARK: Louona Ave., Way Ave., Hunt Place.

STREET OPENING SURVEYS UNCOMPLETED

AMSTEL AVE.: Far Rockaway Blvd. to Beach 71st St.
 HAMMELS BLVD.: Amstel Ave. to Beach Channel Drive.
 BEACH CHANNEL DRIVE: Hammels Blvd. to Beach 116th St.

RULE MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPOR- MENT FOR APPROVAL

	Forwarded	Feet
HEMLOCK PLACE: Collins Ave. to Fresh Pond Road.....	Jan. 22	1,020
EVA PLACE: Flushing Ave. to Hemlock Place.....	Jan. 22	343
FAIRBANKS AVE.: Broadway to Baxter Ave.....	Feb. 16	1,400
25TH ST.: Baxter to Roosevelt Aves.....	Feb. 16	200
BAXTER AVE.: Fairbanks Ave. to 25th St.....	Feb. 15	550
13TH ST.: 12th St. to Polk Ave.....	Mar. 31	1,050
POLK AVE.: 13th St. to Fisk Ave.....	Mar. 31	80
13TH ST.: Fillmore Ave. to Trains Meadow Road (Sewer Easement).....	May 24	370
19TH ST.: Broadway to Astoria Ave.....	Mar. 31	4,750
20TH ST.: Jackson to Grand Aves.....	Mar. 31	2,700
MIDDLEBURG AVE.: Barnett to Woodside Aves.....	April 30	2,225
90TH AVE.: Elderts Lane to 75th St.....	May 24	630
FLUSHING RIVER: Harper to 69th Aves.....	May 18	16,400
GRIFFITH AVE.: Metropolitan to Central Aves.....	June 9	4,090
STEBEN ST.: Proctor St. to Morton Ave.....	June 9	3,140
AMITY ST.: Main St. to 475' east of Willets Point Road.....		
ROOSEVELT AVE.: Main St. to 475' east of Willets Point Road.....	June 23	1,200
FITTING ST.: Barnett to Nelson Aves.....	June 28	5,500
HARPER AVE.: Jackson to Flushing Bay.....	June 24	870
FOREST AVE.: Walter to Summerfield St.....	June 30	500

	Approved	Feet
SYLVAN ST.: Millwood Ave. to St. Felix St.....	June 30	420
WALTER ST.: Cooper to Millwood Aves.....	June 30	1,180
MILLWOOD AVE.: Walter to Pansy Sts.....	June 30	1,400
CHARLOTTE PLACE: Dill Place to Alden Ave.....	June 30	2,000
DILL PLACE: Myrtle to Cooper Aves.....	June 30	1,390
ARMAND PLACE: Walter St. to Charlotte Place.....	June 30	440
85TH DRIVE: 80th to 83rd Sts.....	Aug. 14	336
AMSTEL AVE.: Far Rockaway Blvd. to B. 71st St.;		
HAMMELS BLVD.: Amstel Ave. to Beach Channel Drive;		
BEACH CHANNEL DRIVE: Hammels Blvd. to B. 116th St.....	Oct. 26	21,100
FREEHOLD ST.: Ulster to Baisley Aves.....	Oct. 26	4,500
		<hr/> 79,809

DRAFT DAMAGE MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE
AND APPORTIONMENT FOR APPROVAL

	Forwarded	Feet
HEMLOCK PLACE: Collins Ave. to Fresh Pond Road.....	Jan. 22	1,020
EVA PLACE: Flushing Ave. to Hemlock Place.....	Jan. 22	340
FAIRBANKS AVE.: Broadway to Baxter Ave.....	Feb. 16	1,400
25TH ST.: Baxter to Roosevelt Aves.....	Feb. 15	200
BAXTER AVE.: Fairbanks Ave. to 25th St.....	Feb. 16	550
13TH ST.: 12th St. to Polk Ave.....	Mar. 31	1,050
POLK AVE.: 13th St. to Fisk Ave.....	Mar. 31	80
13TH ST.: Fillmore Ave. to Trains Meadow Road.....	May 24	370
19TH ST.: Broadway to Astoria Ave.....	Mar. 31	4,750
20TH ST.: Jackson to Grand Aves.....	Mar. 31	2,700
MIDDLEBURG AVE.: Barnett to Woodside Aves.....	April 30	2,225
90TH AVE.: Elderts Lane to 75th St.....	May 24	630
GRIFFITH AVE.: Metropolitan to Central Aves.....	June 9	4,090
STEUBEN ST.: Proctor St. to Morton Ave.....	June 9	3,140
FITTING ST.: Barnett to Nelson Aves.....	June 28	5,500
HARPER AVE.: Jackson Ave. to Flushing Bay.....	June 24	870
FOREST AVE.: Walter to Summerfield St.....	June 30	500
WALTER ST.: Cooper to Millwood Aves.....	June 30	1,180
MILLWOOD AVE.: Walter to Pansy St.....	June 30	1,180
SYLVAN ST.: Millwood to St. Felix Ave.....	June 30	420
CHARLOTTE PLACE: Dill Place to Alden Ave.....	June 30	2,000
DILL PLACE: Myrtle to Cooper Aves.....	June 30	1,390
ARMAND PLACE: Walter St. to Charlotte Place.....	June 30	440
85TH DRIVE: 80th to 83rd Sts.....	Aug. 14	336
FREEHOLD ST.: Ulster to Baisley Aves.....	Oct. 26	4,500
		<hr/> 41,109

FINAL DAMAGE MAPS COMPLETED AND FORWARDED TO CORPORATION COUNSEL

	Forwarded	Feet
STONE ST.: Greenpoint Ave. to Queens Blvd.....	July 12	260
Skillman to Barnett Aves.....	July 12	750
DICKSON ST.: Skillman to Barnett Aves.....	July 12	1,430
ROCKAWAY BLVD: Elderts Lane to Atlatnic Ave.....	Aug. 20	1,850
95TH AVE.: 109th to 111th Sts.;		
113th to 115th Sts.....	Sept. 30	950

	Forwarded	Feet
SCHURZ AVE.: Astoria to Berrian Aves.....	Sept. 30	4,650
OLD FRESH POND ROAD: New Fresh Pond Road to Mt. Olivet Ave.....	Aug. 18	300
BURROUGH AVE.: Sinclair Ave. to 184' south.....	June 30	184
SENECA AVE.: Borough Line to De Kalb Ave.; Summerfield St. to St. Felix Ave.....	June 30	550
154TH ST.: Barclay to Sanford Aves.....	June 30	80
BARCLAY AVE.: Murray to 154th Sts.....	June 30	170
89TH AVE.: Across the L. I. R. R.....	June 30	170
TRAUTWINE ST.: Fisk Ave. to Ramsey St.....	June 30	455
171ST ST.: Northern Blvd. to Station Road.....	Mar. 26	
STATION ROAD: 171st St. to Cemetery Lane.....	Mar. 26	450
NORTH JANE ST.: Vernon Ave. to Barge Canal Terminal.....	Mar. 24	360
LAUREL HILL AVE.: Skillman to Anable Aves.....	Mar. 31	2,600
MURRAY ST.: Northern Blvd. to 34th Ave.....	Mar. 31	750
MURRAY LANE: Murray to 33rd Sts.....	Mar. 31	450
123RD ST.: 12th to 13th Aves.....	Mar. 28	316
		<hr/> 16,729

BENEFIT MAPS COMPLETED AND FORWARDED TO CORPORATION COUNSEL

	Forwarded	Feet
STONE ST.: Greenpoint Ave. to Queens Blvd.....	July 12	260
Skillman to Barnett Aves.....	July 12	750
DICKSON ST.: Skillman to Barnett Aves.....	July 12	1,430
95TH ST.: 109th to 111th Sts.; 113th to 115th Sts.....	Sept. 30	950
SCHURZ AVE.: Astoria to Berrian Aves.....	Sept. 30	4,650
OLD FRESH POND ROAD: New Fresh Pond Road to Mt. Olivet Ave.....	Aug. 18	300
BURROUGH AVE.: Sinclair Ave. to 184' south.....	June 30	184
SENECA AVE.: Borough Line to Willoughby Ave.; Summerfield St. to St. Felix Ave.....	June 30	550
154TH ST.: Barclay to Seneca Aves.....	June 30	80
BARCLAY AVE.: Murray to 154th Sts.....	June 30	170
89TH AVE.: Across the L. I. R. R.....	June 30	175
TRAUTWINE ST.: Fisk Ave. to Ramsey St.....	June 30	455
171ST ST.: Northern Blvd. to Station Road.....	Mar. 26	
STATION ROAD: 171st St. to Cemetery Lane.....	Mar. 26	450
NORTH JANE ST.: Vernon Ave. to Barge Canal Terminal.....	Mar. 24	360
LAUREL HILL AVE.: Skillman to Anable Aves.....	Mar. 31	2,600
MURRAY ST.: Northern Blvd. to 34th Ave.....	Mar. 31	750
MURRAY LANE: Murray St. to 33rd Ave.....	Mar. 31	450
123RD ST.: 12th to 13th Aves.....	Mar. 28	315
		<hr/> 14,879

STREET OPENING MAPS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT
PENDING APPROVAL

BROADWAY: Newtown Road to Queens Blvd. (Damage).

STATUS OF STREET OPENING MAPS NOT COMPLETED

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED				
			N.S.—Not Started.				
			C.T.—Completed and Transmitted.				
			Rule	Draft		Final	
				Damage	Damage	Damage	Benefit
ALDEN AVE.	L. I. R. R. to Pansy St.	2,500	10	10	N.S.	N.S.	N.S.
THEWE AVE.	Penelope St. to Nassau Ave.	6,000	N.S.	N.S.	"	"	"
MAURE AVE.	Metropolitan Ave. to Wisner Place						
BROADWAY	Atlantic to Liberty Aves.	4,800	"	"	"	"	"
ARMAND PLACE	Newtown Road to Queens Blvd.	12,000	C.T.	C.T.	"	"	"
CHARLOTTE PLACE	Walter St. to Charlotte Place	440	"	"	30%	30%	30%
DILL PLACE	Dill Place to Alden Ave.	2,000	"	"	30%	30%	30%
FOREST AVE.	Myrtle to Cooper Aves.	1,390	"	"	30%	30%	30%
MILLWOOD ST	Walter to Summerfield Sts.	500	"	"	30%	30%	30%
WALTER ST.	Walter to Slocum Sts.	1,400	"	"	30%	30%	30%
SYLVAN ST.	Cooper to Millwood Aves.	11,300	"	"	30%	30%	30%
FAIRBANKS AVE.	Millwood to St. Felix Aves.	420	"	"	30%	30%	30%
*25TH ST.	Broadway to Baxter Ave.	1,400	"	"	N.S.	N.S.	N.S.
BAXTER AVE.	Baxter to Roosevelt Aves.	550	"	"	"	"	"
AGNES PLACE	Fairbanks Ave. to 25th St.	200	"	"	"	"	"
BERTHA PLACE	Myrtle Ave. to L. I. R. R.	1,400	"	"	85	85	85
CONSTANTIA PLACE	Myrtle Ave. to Varian St.	1,170	"	"	85	85	85
VARIAN AVE.	Myrtle Ave. to Varian St.	1,160	"	"	85	85	85
WEISSE AVE.	Ford St. to Agnes Place	500	"	"	85	85	85
13TH ST.	Varian St. to L. I. R. R.	180	"	"	85	85	85
POLK AVE.	12th St. to Polk Ave.	1,050	C.T.	C.T.	N.S.	N.S.	N.S.
95TH (CHICHESTER) AVE.	13th St. to Fisk Ave.	80	"	"	"	"	"
FLUSHING RIVER	109th to 111th Sts., and 113th to 115th Sts.	950	"	"	C.	C.	C.
SOUTH ST.	Harper Ave. to its southern terminus near 69th Ave.	16,400	"	40%	N.S.	N.S.	N.S.
	New York Ave. to Waltham St.	2,300	"	C.T.	75	75	75

STATUS OF STREET OPENING MAPS NOT COMPLETED—Continued

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED			
			N.S.—Not Started.			
			C.T.—Completed and Transmitted. C.—Completed, but not Transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
*40TH AVE.:						
*ROOSEVELT AVE.....	Main St. to angle east of Willets Point Blvd.....	1,200	C.T.	N.S.	N.S.	N.S.
ROCKAWAY BLVD.....	Elderts Lane to Atlantic Ave.....	1,850	"	C.T.	C.T.	C.
37TH (WARREN) ST.....	Banta to Hunt Sts.....	390	"	"	1%	1%
TIEMANN AVE.....	Lurting to Nicholls Sts.....	509	"	"	N.S.	N.S.
SCHURZ AVE.....	Astoria to Berrian Aves.....	4,650	"	"	C.T.	C.T.
TUCKERTON (WATER) ST.....	Blakely St. to Guinsburg Place.....	850	"	"	20	20
153RD ST. (JACOB PLACE).....	South Road (St.) to 107th Ave. (Atlantic St.).....	300	"	"	20	20
155TH ST.....	South Road (St.) to 117th Ave. (Yukon Ave.).....	5,900	"	"	20	20
114TH AVE.....	Sutphin Blvd. to 167th St.....	3,300	20	20	N.S.	N.S.
FREEHOLD ST.....	Ulster to Baisley Aves.....	4,500	C.T.	C.T.	N.S.	N.S.
PROPERTY TO BE ACQUIRED FOR SCREENING AND SEDIMENTATION PLANT.....	Bounded by Seaside Park, Jamaica Bay, Beach 149th St., and the South Line of Newport Ave.....	630	"	"	"	"
BAISLEY BLVD.....	Rockaway Blvd. to Byron St.....	3,800	N.S.	N.S.	"	"
BYRON ST.....	Baisley Blvd. to North Line of Cornell Basin.....	1,400	"	"	"	"
NORTH CONDUIT AVE.....	Baisley Blvd. to 132nd St.....	5,400	"	"	"	"
132ND ST.....	North Conduit Ave. to North Line of Jamaica Disposal Plant.....	600	"	"	"	"
1ST ST.....	Jackson to 21st Aves.....	2,600	C.T.	C.T.	"	"
FITTING ST.....	Barnett to Nelson Aves.....	5,500	"	"	"	"
19TH AVE.....	Broadway to Astoria Ave. (Subject to rights of New York Connecting Railroad).....	4,750	"	"	"	"
20TH AVE.....	Jackson to Grand Aves.....	2,700	"	"	"	"
LURTING ST.....	31st St. to Junction of Maple and Sanford Aves.....	6,200	"	"	30%	30%

STATUS OF STREET OPENING MAPS NOT COMPLETED—Continued

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED			
			N.S.—Not Started.			
			C.T.—Completed and Transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
BORDEN AVE.	Laurel Hill Ave. to Grand St.	2,800	15 C.T.	15 C.T.	N.S.	N.S.
1ST ST.	Woodside Ave. to Mathews Place	415	"	"	"	"
HARPER AVE.	Jackson Ave. to Pier and Bulkhead Line of Flushing Bay	870	"	"	"	"
38TH (WARBURTON) AVE.	Cross Island Blvd. to Bell Ave.	3,820	N.S.	N.S.	"	"
CROSS ISLAND BLVD.	On East Side to Point 100' North from 38th St.	100	"	"	"	"
19TH ST. (HILLCREST AVE.)	Sinclair Ave. to Property Line 120' Southerly	120	70%	70%	"	"
BEACH 25TH ST.	Cornaga Ave. to Far Rockaway Blvd.	1,000	85%	85%	"	"
94TH AVE.	150th St. to Beaver Road	350	N.S.	N.S.	"	"
BLAKELY AVE.	Beaver Road to Tuckerton St.	240	"	"	"	"
13TH ST. (Sewer Easement)	Fillmore Ave. to Trains Meadow Road	370	C.T.	C.T.	"	"
90TH AVE.	Elderts Lane to 76th St.	630	"	"	"	"
BEACH 62ND ST.	Rockaway Blvd. to Thursby St.	1,210	20%	20%	"	"
LOUONA AVE.	Corona to Roosevelt Aves.	1,500	90%	90%	N.S.	N.S.
HUNT ST.	Van Dine St. to Louona Ave.	2,330	"	"	"	"
PUBLIC PARK	Bounded by Louona Ave., Way Ave., and Hunt Place	.....	.....	.....	.....	.....
RAMSEY ST.	Falkner to Fulton Sts.	680	N.S.	N.S.	"	"
FALKNER ST.	Ramsey to Mazeau Sts.	180	"	"	"	"
GRIFFITH AVE.	Metropolitan to Central Aves.	4,090	C.T.	C.T.	25%	25%
STEUBEN ST.	Proctor St. to Morton Ave.	3,140	"	"	25%	25%
AMSTEL AVE.	Far Rockaway Blvd. to Beach 71st St.	21,100	"	5%	N.S.	N.S.
HAMMELS BLVD.	Amstel Ave. to Beach Channel Drive	21,100	"	5%	"	"
BEACH CHANNEL DRIVE	Hammels Blvd. to Beach 116th St.	21,100	"	5%	"	"
*43RD ST.	Ditmars to Burnside Aves.	3,850	C.	C.	"	"
MIDDLEBURG AVE.	Barnett to Woodside Aves.	2,340	C.T.	C.T.	"	"
HEMLOCK PLACE	Collins Ave. to Fresh Pond Road	1,020	"	"	"	"
EVA PLACE	Flushing Ave. to Hemlock Place	340	"	"	"	"

* Amended.

ALTERATION OF ZONE MAPS APPROVED BY BOARD OF ESTIMATE AND APPOR-
TIONMENT

	Approved
FULTON PLACE: Territory bounded by Atlantic Ave., Ward St., Metropolitan Ave., etc.....	(44C) Aug. 6
LURTING ST.: Nichols St. to Alburdis Ave.....	(53C) Feb. 20
MERRICK ROAD: Bucks Place to 150' north of Sayres St.....	(34C) Feb. 27
TERRITORY BOUNDED BY PANAMA ST., BLAKE ST., HAW-TREE CREEK ROAD and SUTTER AVE.....	(46C) Mar. 19
RALPH ST.: Grandview to Forest Aves.....	(48C) May 14
TROWBRIDGE ST.: Willow to Woolsey Sts.;	
FRANKLIN ST.: Willow to Woolsey Sts.....	(54C) May 14

PROPERTY MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

	Approved
195TH PLACE (Woodhull Court).....	No. 71 April 16
PROPERTY OF GARRET W. COTTER.....	" 73 April 30
BEAUX ARTS PARK.....	" 75 June 11
JAMAICA ESTATES.....	" 80 June 11
PARKVIEW.....	" 68 June 25
NORTH TERRACE.....	" 66 Jan. 23
40 LOTS IN FOURTH WARD (Springfield).....	" 65 Feb. 13
78 LOTS BELONGING TO DICKEL CONSTRUCTION CO.....	" 54 Jan. 30
PIERINA PARK.....	" 69 Mar. 19
ADDISLEIGH: Blocks 5, 6, 7, 8 14 and 15.....	" 72 Mar. 26
BACKUS FARM: Section A.....	" 79 July 2
BACKUS FARM: Section C.....	" 78 July 2
BACKUS FARM: Section B.....	" 77 July 2
ELMHURST HILLTOP.....	" 81 Aug. 6
RICHMOND HILL ARCADE.....	" 86 Sept. 24
COOPER HEIGHTS.....	" 82 Oct. 8
ST. JAMES PARK.....	" 83 Nov. 12
FLUSHING HILLCREST.....	" 84 Oct. 8
640 LOTS BETWEEN HONEYWELL AND LOCUST STS.....	" 94 Dec. 3
LOUIS VOELSEN ESTATE.....	" 89 Sept. 14
BAYVIEW GARDENS.....	" 93 Sept. 10
SCHURGER COURT.....	" 85 Oct. 22

PROPERTY MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT AND
FILED AT THIS OFFICE

	Filed
COOPER HEIGHTS.....	No. 82 Oct. 15
ST. JAMES PARK.....	" 83 Dec. 1
FLUSHING HILLCREST.....	" 84 Oct. 15
SCHURGER COURT.....	" 85 Oct. 29
RICHMOND HILL ARCADE.....	" 86 Oct. 2
BAYVIEW GARDENS.....	" 93 Dec. 27
640 LOTS BETWEEN HONEYWELL AND LOCUST STS.....	" 94 Dec. 27
LOUIS VOELSEN ESTATE.....	" 89 Sept. 24
ELMHURST HILLTOP.....	" 81 Aug. 18
NORTH TERRACE.....	" 66 Feb. 10
40 LOTS IN THE FOURTH WARD (Springfield).....	" 65 Mar. 3
78 LOTS BELONGING TO DICKEL CONSTRUCTION CO.....	" 54 Feb. 13
PIERINA PARK.....	" 69 Mar. 31

	Filed	
195TH PLACE (Woodhull Court).....	"	71 April 24
ADDISLEIGH: Blocks Nos. 5, 6, 7, 8, 14 and 15.....	"	72 April 23
PROPERTY OF GARRET W. COTTER.....	"	73 May 13
JAMAICA ESTATES.....	"	80 June 11

CITY STREETS BY DEDICATION ACCORDING TO OPINIONS RENDERED BY CORPORATION COUNSEL

	Opinion	Feet
ABINGDON ROAD: Brevoort St. to Cuthbert Place.....	Nov. 27	510
AKRON PLACE: Sutphin Road to Alsop St.....	Nov. 27	850
ALMEDA ST.: Beach 63rd St. to Barbadoes Drive.....	June 4	2,900
ANNADALE LANE: Browvale Lane to Little Neck Road.....	Dec. 8	650
ARMAND PLACE: Charlotte Place to Walker St.....	Mar. 11	475
AVENUE "D": 15th to 16th Sts.....	Sept. 30	200
AZALEA ST.: Metropolitan Ave. to Winifred St.....	Oct. 14	350
BARBADOES DRIVE: Burchell to Hillmeyer Sts.....	June 4	500
BARN ST.: Jackson Ave. to L. I. R. R.....	Mar. 30	365
BAYFIELD ST.: Beach 65th St. to Beach 72nd St.....	June 4	1,675
BEDDARD ST.: Brink Place to Dunsing St.....	Oct. 15	384
BERTHA PLACE: Cooper Ave. to 170' north of Myrtle Ave.....	Nov. 22	700
BITTMAN ST.: Whitlock to Caldwell Aves.....	Oct. 14	440
BROWN PLACE: Grand to Whitlock Ave.....	Oct. 15	446
BROWVALE LANE: Northern Blvd. to Leith Road.....	Dec. 8	2,050
BRUSH ST.: Cooper to Myrtle Aves.....	Nov. 22	700
BURCHELL ST.: Beach 69th St. to Barbadoes Drive.....	June 4	1,300
CENTREVILLE AVE.: Rockaway Blvd. to Old South Road.....	Mar. 16	3,405
CHRISTIE ST.: Corona to Alstyne Aves.....	Dec. 15	200
COE PLACE: Junction Ave. to 41st St.....	Oct. 14	400
COOPER AVE.: Brush St. to Weisse Ave.....	Nov. 16	700
COTTAGE ST.: Hillside Ave. to Kew Gardens Road.....	Mar. 5	375
CROSS ISLAND BLVD.: Locke to 15th Aves.....	Oct. 2	1,550
CROWN PLACE: Opdyke to Provost Sts.....	Mar. 16	250
DE COSTA PLACE: Beach 63rd to Beach 67th Sts.....	June 4	1,000
DE COSTA ST.: Beach 69th to Beach 72nd Sts.....	June 4	600
DELANCEY ST.: Brookhaven Ave. to Beach 9th St.....	Jan. 31	1,575
EAGLES PLACE: Boulevard to the Park.....	Nov. 10	500
EAST BLVD.: Chisholm Ave. to Northern Blvd.....	Nov. 12	300
EBERS AVE.: Jameson to Manville St.....	Oct. 27	550
EDGEMERE AVE.: Beach 45th to Beach 56th Sts.....	June 4	2,650
EDGEWATER LANE: 3rd Place to 39th Ave.....	Dec. 8	1,300
EDGEWATER LANE: 35th Ave. to Edgewater View.....	Dec. 8	2,350
EBERTSON ST.: Lamont to Kingsland Aves.....	Sept. 23	525
ELIZABETH ST.: Beach 68th St. to Jamaica Bay.....	June 4	1,700
FAILING ST.: Beach 69th to Beach 72nd Sts.....	June 4	600
GARDINER AVE.: 47th Ave. to Rocky Hill Road.....	Nov. 12	300
GEM ROAD: Beach 86th to Beach 87th Sts.....	Feb. 7	200
HAIGHT ST.: Bradford to Muhlenburg Ave.....	Nov. 12	815
HAMMOND PLACE: Gay St. to Hanover Ave.....	April 28	350
HANSOM PLACE: Myrtle to Weisse Aves.....	Nov. 16	800
HESSLER ST.: Beach 69th St. to Barbadoes Drive.....	June 4	675
HILLMEYER ST.: Beach 69th St. to Barbadoes Drive.....	June 4	1,250
LEDERER ST.: Fisk Ave. to Ramsey St.....	Oct. 27	455
LEE AVE.: Woodside Ave. to Queens Blvd.....	Jan. 23	742
LEROY PLACE: 140th to Kaplan Sts.....	Feb. 21	500

	Opinion	Feet
LEWIS AVE.: Waldron to 51st Sts.....	June 11	900
MARATHON AVE.: Broadway to 40th Ave.....	Nov. 12	2,050
MARLOWE AVE.: Corona to Alstyne Aves.....	Jan. 30	350
MAURE AVE.: Metropolitan Ave. to Kew Gardens Road.....	Mar. 6	800
MERRICK BLVD.: 108th Ave. to 108th Drive.....	June 4	275
MEYERS AVE.: Woodside Ave. to Queens Blvd.....	Jan. 30	740
MILLIARD ST.: 32nd Ave. to 180' south of 33rd Ave.....	Jan. 23	700
MONICA ST.: Manville to Jamieson Sts.....	Oct. 30	750
MORGAN ST.: Hillendale Ave. to Old House Landing Road.....	Nov. 27	800
NEWTOWN ROAD: Queens Blvd. to Jamaica Ave.....	Nov. 12	4,500
NORWOOD AVE.: 35th to Mitchell Aves.....	Mar. 16	850
ORMOND ST.: 33rd to 35th Aves.....	Jan. 23	856
PACIFIC ST.: Andrews St. to Collins Ave.....	Nov. 27	300
PENDLETON ST.: Avenue "C" to Avenue "D".....	Sept. 30	450
PINFORD ST.: 33rd Ave. to 320' south of 35th Ave.....	Jan. 23	1,250
PLATTWOOD AVE.: Rockaway Blvd. to Kern Place.....	April 28	420
PROSPECT PLACE: Hillendale to Marathon Aves.....	Nov. 27	350
PURITAN AVE.: Burns St. to Metropolitan Ave.....	April 28	2,690
QUAKER ST.: 33rd to 35th Aves.....	Jan. 23	856
SCHLEICHER COURT: 13th to 17th Sts.....	Mar. 19	900
SMITH ST.: Foch to Baisley Blvd.....	Oct. 14	2,250
SUSSMAN ST.: Jamaica to Hillside Aves.....	Oct. 2	610
THURSBY ST.: Beach 63rd St. to Jamiaca Bay.....	June 4	2,850
TRIVERS ROAD: Brownvale Lane to 550' westerly.....	Nov. 27	550
VAN DYKE ST.: Fisk Ave. to Ramsay St.....	Oct. 15	455
VOORHEES PLACE: Roosevelt Ave. to 50' south of Banta St.....	Jan. 30	800
WEISSE AVE.: Myrtle Ave. to 125' north of Hansom Place.....	Nov. 16	730
WOODHULL ST.: Corona to Tiemann Aves.....	June 29	260
XENIA ST.: Martense to Westside Sts.....	Mar. 16	1,260
15TH ST.: Chisholm Ave. to Northern Blvd.....	Nov. 12	300
23RD ST.: 8th to 11th Aves.....	Oct. 14	600
31ST DRIVE: Farrington to Ulmer Sts.....	June 11	475
33RD AVE.: 29th St. to 100' west of 25th St.....	Mar. 16	1,200
34TH ST.: State St. to Mitchell Ave.....	Mar. 25	856
35TH ST.: Walcott to Riker Aves.....	Oct. 14	610
37TH AVE.: 221st to 224th Sts.....	Nov. 22	750
43RD AVE.: Hillendale to Marathon Aves.....	Dec. 8	550
47TH AVE.: Higgins Ave. to 211th St.....	Oct. 27	650
BEACH 60TH ST.: Rockaway Beach Blvd. to 675' south of Larkin St.....	Oct. 14	1,100
BEACH 63RD ST.: Amstel Ave. to De Costa Place.....	June 4	1,950
BEACH 64TH ST.: Amstel Ave. to De Costa Place.....	June 4	1,950
BEACH 65TH ST.: Jamaica Bay to 125' north of L. I. R. R.....	June 4	3,100
BEACH 66TH ST.: L. I. R. R. to De Costa Place.....	June 4	2,700
BEACH 67TH ST.: L. I. R. R. to Jamaica Bay.....	June 4	3,300
BEACH 68TH ST.: L. I. R. R. to Jamaica Bay.....	June 4	3,300
BEACH 69TH ST.: L. I. R. R. to Jamaica Bay.....	June 4	3,400
BEACH 70TH ST.: L. I. R. R. to Amstel Blvd.....	June 4	650
BEACH 72ND ST.: Amstel Blvd. to Jamaica Bay.....	June 4	2,500
84TH ST.: Atlantic to 91st Aves.....	Mar. 31	430
84TH ST.: Jerome Ave. to 30' south of Huntington St.....	July 1	550
85TH DRIVE: Forest Parkway to 300' easterly.....	April 28	300
85TH DRIVE: 85th St. to 205' westerly.....	Nov. 22	205
86TH ST.: Atlantic to 91st Aves.....	Mar. 31	2,350
86TH AVE.: Forest Parkway to 300' easterly.....	Oct. 14	300
87TH ST.: Atlantic to 88th Aves.....	Mar. 11	1,675
88TH AVE.: 76th to 78th Sts.....	Mar. 12	450

	Opinion	Feet
88TH ST.: Atlantic to 91st Aves.....	Mar. 31	2,200
89TH AVE.: 85th to 87th Sts.....	Mar. 11	450
89TH ST.: Atlantic to 91st Aves.....	Mar. 31	600
90TH AVE.: 84th St. to 34' westerly.....	June 11	34
90TH ST.: Atlantic to 91st Aves.....	Mar. 31	700
91ST ST.: Atlantic to 91st Aves.....	Mar. 31	600
95TH ST.: 91st to 95th Aves.....	Jan. 21	1,000
121ST AVE.: Lakeview Blvd. East to New York Ave.....	Nov. 12	1,200
127TH ST.: Liberty Ave. to 530' south of 107th Ave.....	Oct. 14	1,427
127TH ST.: Metropolitan Ave. to Kew Gardens Road.....	Oct. 2	1,180
129TH ST.: Metropolitan Ave. to Kew Gardens Road.....	Oct. 2	1,050
130TH ST.: Grand Central Parkway to 125' south of Lefferts Ave.....	June 26	800
130TH ST.: Atlantic to Liberty Aves.....	Dec. 22	2,550
132ND ST.: 101st to Liberty Aves.....	Nov. 22	875
136TH ST.: Hillside to 87th Aves.....	Mar. 29	510
143RD ST.: Hillside Ave. to 86th Road.....	Oct. 15	1,000
154TH ST.: 17th Road to Cross Island Blvd.....	Oct. 14	100
168TH ST.: Jamaica Ave. to South St.....	Jan. 23	1,570
169TH ST.: 35th Ave. to Depot Lane.....	Oct. 14	1,230
191ST ST.: Cross Island Blvd. to Crocheron Ave.....	June 10	1,430
204TH ST.: Clifford Ave. to Springfield Road.....	Nov. 12	1,700
205TH ST.: 147th to Clifford Aves.....	Dec. 2	1,750
211TH ST.: 46th to 47th Aves.....	Oct. 27	450
218TH ST.: 40th to 41st Aves.....	Oct. 15	300
239TH ST.: 39th Ave. to 38th Road.....	Nov. 12	800
247TH ST.: 40th to Jackson Aves.....	Nov. 22	2,300
248TH ST.: 40th to Jackson Aves.....	Nov. 16	2,200

138,672

DIVISION OF SUBSTRUCTURES AND FRANCHISES

MAPS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of less than 40 feet. Dated March 17, 1915. T. B. No. 624.

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of forty (40) feet or more. Dated March 17, 1915. T. B. No. 624.

FIELD CORPS

Angles turned.....	210
Features located.....	134
Linear feet of traverse.....	16,700
“ “ “ curb located.....	12,400
“ “ “ trolley tracks located.....	1,100
“ “ “ taping.....	101,653
“ “ “ building line.....	9,600
Sewer manholes located.....	27
“ receiving basins located.....	9
Telephone boxes located.....	13
Gas valve boxes located.....	5
Water Boxes located.....	3
Electric light and power boxes located.....	18
Poles, hydrants, etc., located.....	59
Street openings in which substructure locations were made.....	4,869

Linear feet of gas mains located.....	84,224
“ “ “ water mains located.....	58,425
“ “ “ electric power duct located.....	24,315
“ “ “ telephone duct located.....	31,035
“ “ “ sewer pipe located.....	2,235
“ “ “ miscellaneous pipe located.....	395
“ “ “ sub-soil located.....	142
“ “ “ levels.....	4,000
Sub-soil locations.....	4
Total linear feet of substructures located in street openings.....	200,629
Boxes, sewer manholes, etc., measured in detail.....	624
Inspections at which data was procured.....	2,781
“ “ “ no date was procured.....	1,895
Total number of inspections.....	4,676
Preliminary surveys and detail box measurements on 25 sheets, covering 8 miles of streets.	
Levels on 2 sheets, covering 0.75 miles of streets.	
Miscellaneous measurements on 12, sheets covering 21 miles of streets.	
Determined the location of 37.9 miles of substructures exposed in street openings in the 1st, 2nd, 3rd, 4th and 5th Wards.	

OFFICE CORPS:

Plotting topography, detail measurements and street opening surveys on 2 record maps.
Plotting alterations on Final Section Atlas.
Plotting map of grants of land under water at foot of 6th and 7th streets, Long Island City.
Computed coordinates for two record maps.
Collected all available boring and subsoil data.
Indexed and filed surface location surveys, street opening surveys, boring data, sewer, highway and miscellaneous maps.
Furnished 264,770 feet of substructure information to City Departments, Public Service Corporations and Private interests.
Approved 684 street opening permits for the installation of 17.7 miles of gas mains, 6.7 miles of water mains, 11.6 miles of telephone duct and 5.7 miles of electric light and power duct in accordance with our standard substructures plan.
Approved 1,957 permits for miscellaneous installations and repairs.

MISCELLANEOUS

MAPS FILED WITH THIS BUREAU:

Final Sections (Atlas Sheets).....	9
Grade Charts.....	1
Special Final Maps.....	9
Alteration Maps.....	51
Draft Damage Maps (Original).....	33
Draft Damage Maps (Tracings).....	33
Benefit Maps.....	7
Profile Maps.....	10
Damage Estimates.....	3,532
Guaranteed Maps.....	2
Surveys for Corporation Counsel.....	12
Filed Maps.....	17
Tax Maps.....	34
Miscellaneous.....	
Zone Maps.....	

Conduit Maps.....	..
Old Road Maps.....	...
Pier and Bulkhead Maps.....	..
Railroad Maps.....	...
Sewer Maps.....	2
Property Maps.....	20
House Numbering Maps.....	10

COPIED AT THE COUNTY CLERK'S OFFICE:

Sales Maps.....	25
Guaranteed Surveys.....	4,000
Deed Descriptions.....	350
Searches.....	100
Investigations.....	40

BLUEPRINTS MADE BY THIS BUREAU:

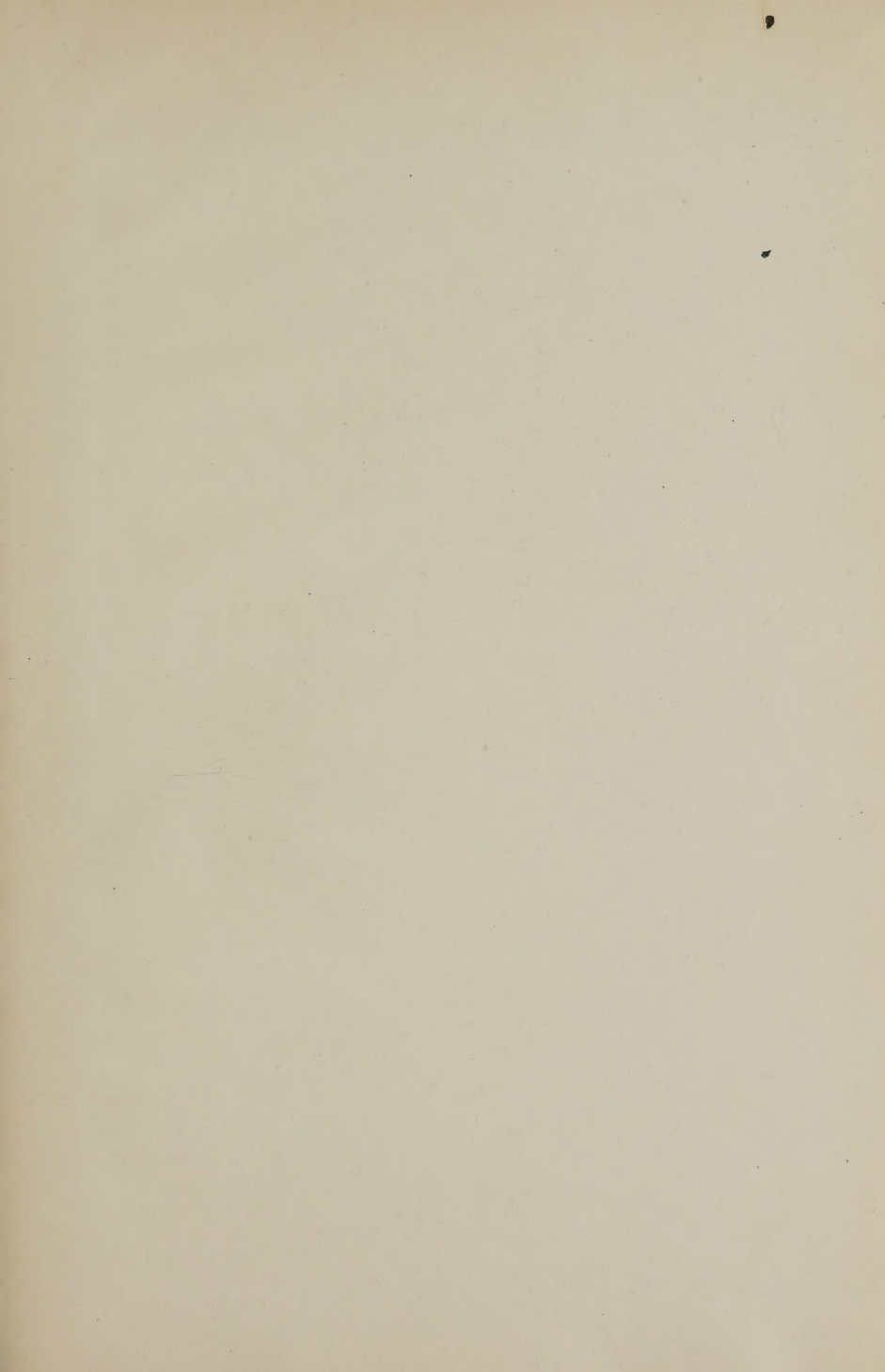
For this Bureau and other City Departments.....	4,906
For the Long Island Railroad.....	79
For the Lawyers' Title Insurance and Trust Company.....	89
For the United Title Company.....	7
For the Title Guarantee and Trust Company.....	67
For Civil Engineers and City Surveyors.....	298

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